



A SELECTIVE MICROFILM EDITION

PART II (1879–1886)

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Thomas A. Edison Papers

at

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THOMAS A. EDISON PAPERS A SELECTIVE MICROFILM EDITION PART II (1879-1886)

REEL 43

NOTEBOOK SERIES (NBK-21)

Fort Myers Notebooks (#4 - #7)

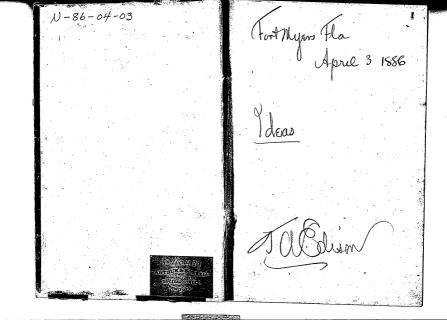
Lamp Factory Notebooks

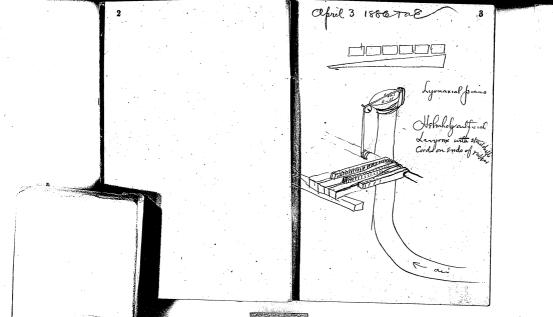
Pocket Notebooks (Mott Journals)

Fort Myers Notebook, N-86-04-03.3

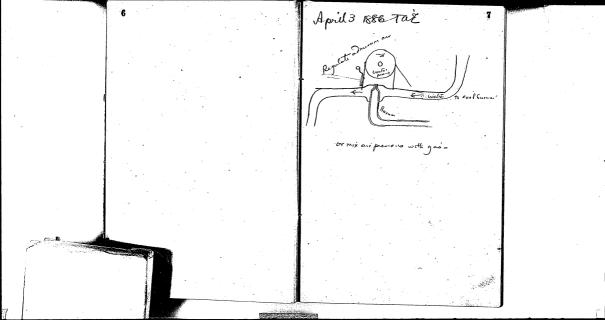
This notebook covers the period April 1386. The entries are by Edison and Mina Miller Edison. Many of the notes and drawings concern fundamental experiments on magnetic fields and lines of force, including those of the sun, earth, and other planets in the solar system. There is most material relating to the conversion of heat directly into electricity. Other note of the sun goal with the coating of carbon filaments, armature design, carbons for a fine state of the sun and the coating of carbon filaments, armature design, carbons for the state of the sun and the su

Blank pages not filmed: 244-245, 248-249.





April 3 PO 1888 Tac In the gelantenous Shea for compound Carbono mix minimum quantity Caustio Potash to cause it olypiting to five at highest lamperatures to hold Shea Lampblack - Drop on hot plate (vid hot to ignite it) Crude pstrokeum + revolving With Matural gas Dont use outside Oxygen but play previous to issuance Some burner with The gas - ascertain by ixperment smallest quantity Oxygen that will take all the y dragen Of the gas leave not



April 4 1866 Tal-Ipropose to notate the cotton picker spindes by a blast of air acting on a wheel like States and & lower - The duction boung reversable as the spindle goe up or down Towards the plant. Mulliple amatines each amatine Commentato pt 1 block to we to feest

April 4 1886 - Tar On the filment of carbon coated with sike ite, The thickened ands can be freed from the Coating by immoving in an acid -Hydro Ghorie, Sulphie etc but this need not be originally coaled if each. one done by by hand seperately. The marave with number of canthe perharseprever with white radiating Ourface will be greatly married Make a 10 MF Condenser parague) in form Cylender also are Francity James Copretty or near test both outside thou Enclose one in Vacuum - see fracum was see Capacity or

April 5 1886 Tal Carboniza less deme material such as paper, wood (pine wellow) Licorice mixedwith MgO by auto preliminary to get high recordance then of I stands will Compound The Duface by mg 0 -Ythink with perfect Carbon The lighter malanal will answer fully as well as 6 am 800 4 Be Exceeding paper - White Holly LampBlack MMgO- Lionice MMgO. Junch out afralled sheets ofthe material

April 5 1886 Tal ouft campra6ably be ratted down between tu foil several layers of moternal exfort on over the other wrolled logether this obtained Even Deveral might be slamped out smullemonly bent in loop So + Confad logather The foil to make fine Robinsonts

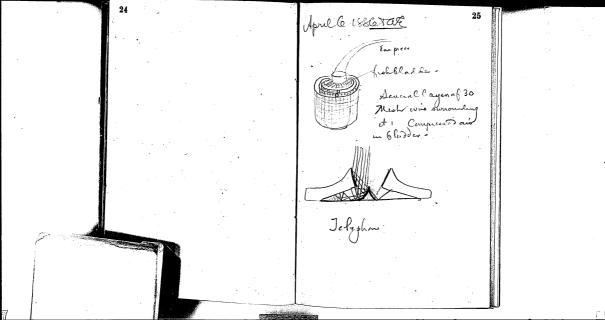
April 5 1886 Tak With auto Preliminary Soak original filiments with Licorico, prelim + Carby reg - Then Soak Licorice & pretim resonk 2003 times then Carby regular This has never been fairly true of

Aprille 1886 Ta E are Light Canbons - Before 6 aling make sheets of pottery mixture trolloutside Covering on Canbon. make mixture so as to Contraction will be same as Canbon - put it on vary this pulipi 2 or 3 more dungly them Toro Coats best - alumina - mgo Grashopper Gallery - Make the size Vofthe cells as small as possible so as to prevent of w duchange by large surface Tridisominio points on vibrato po no fri Jointo to follow up & prevent instantan

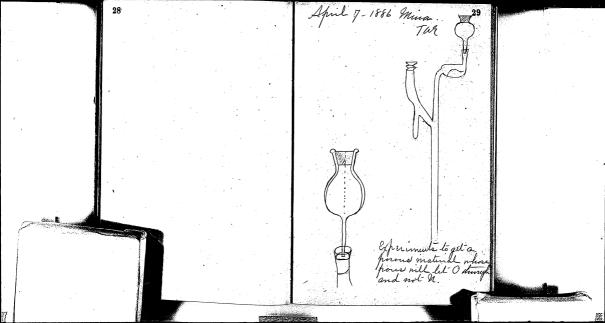
April 6 1586 7ag Make a mouse wiff Like Sir LOMTS Mperhaps that gas lighter which I have Lab run by motor wift auswar Try Counter State Exputs, Speaking tube System org greated distance with mich gas pipi deaples gmi un ando 4 35-lbs Upersum seprement in tube - try lead pipe to mode Dia - also glass like + dia morde - These will poly Carry faither on a cot smoothness tomake joint - Carry pressure as possible in gas or lead pupe Exp.

57

Aprille 18868aE

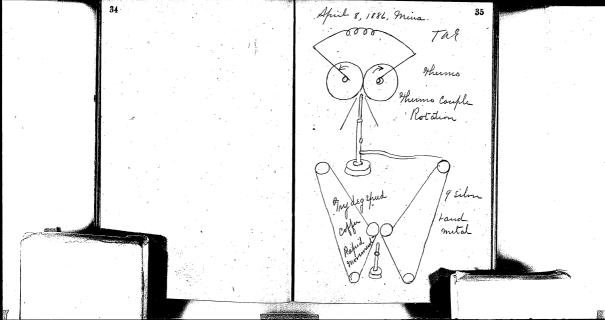


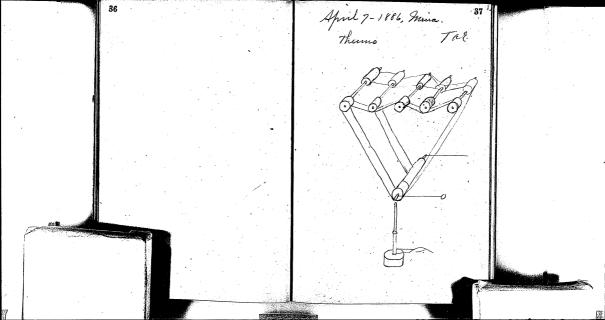
Aprille 1886 Tax cleandy of Hydroga Conversion affect into E by oxidation + reduction of O of Load on Continuously moving band of lead - passing into leguis Closeto combon un proper lequid Lead is oxided there the Dries tale Those through Hydrogen reduction lubre to ballery a gam & so an Continuionily.



April 7, 1881 Mina Tast
Use plasti pais - dry clay
Cork Line natural - mondad skile
Menschum - presed hisphalis,
Chalk every degree I pursue.
Cocoanut Charcoal ary charcoal -/ Leartin Oblodden Alegalor Leartin parchiment paper Electrify the swrfface of the provis material

April 7, 1886, Mina Elidufy

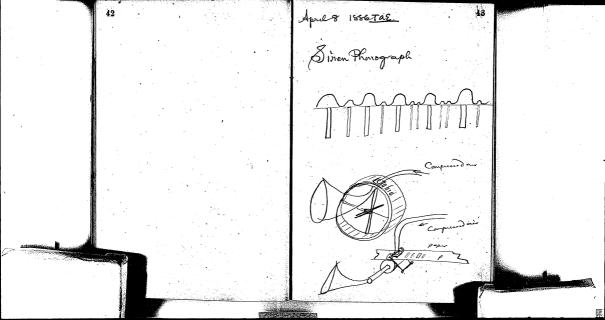


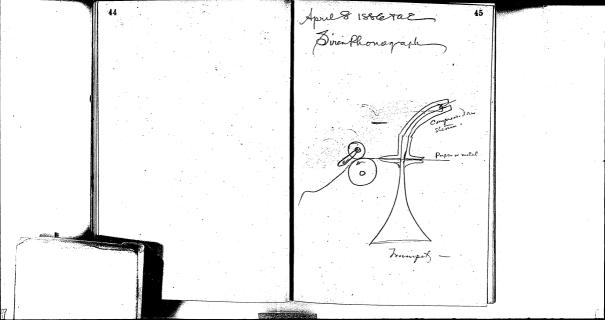


April 7-1886 Mina TOE 89.

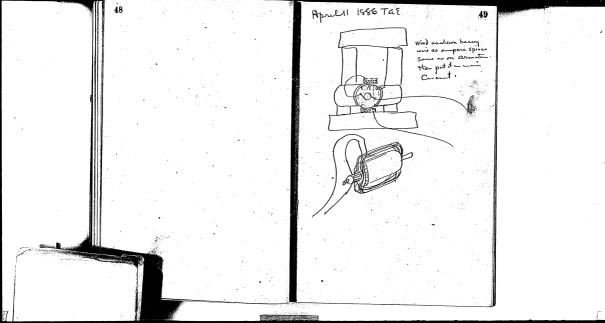
Baloon Thegraphe

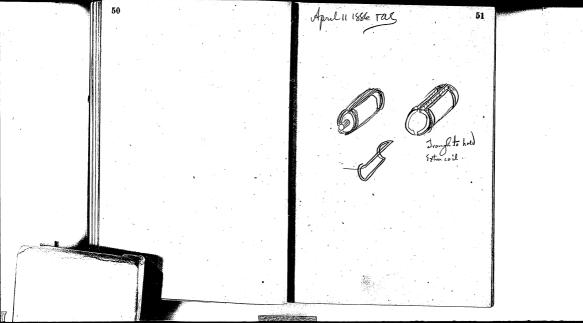
April 8 1886 Tal For seperating O from our - draw into a vacuum through emmense Ourfaci of vion or other metal perhaps those metals which have an afinity for O. greatly. Experiments on loops of all metals in Vacuo for Paper in Sillimans Cooling matter metals various Kinds in Vacuo _ also with carrent (strang) prossing through metal whili light - vacuo - also with Jounful magnetic feel & - ditto with Court of various any

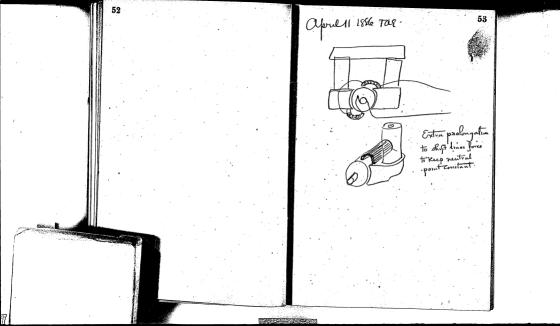




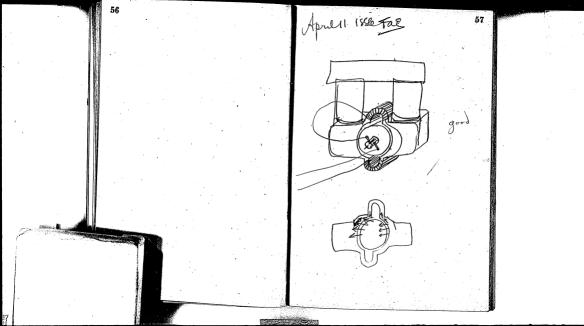
April 8 1886 708 Induting ducty wohongh by duct impact af cho sound where Thank I will reproduce

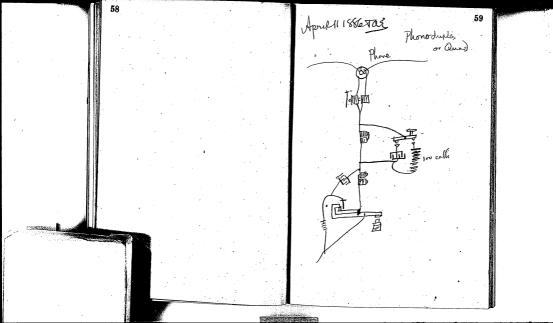


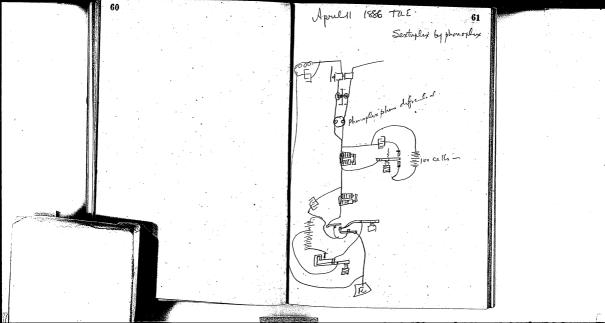


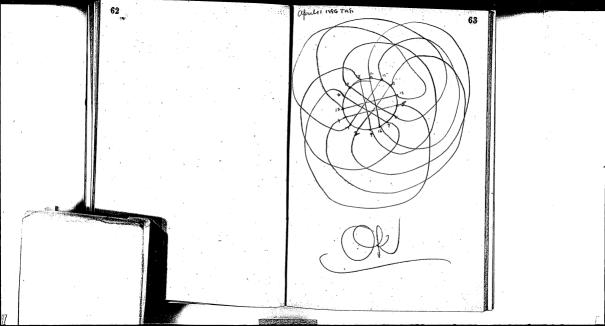


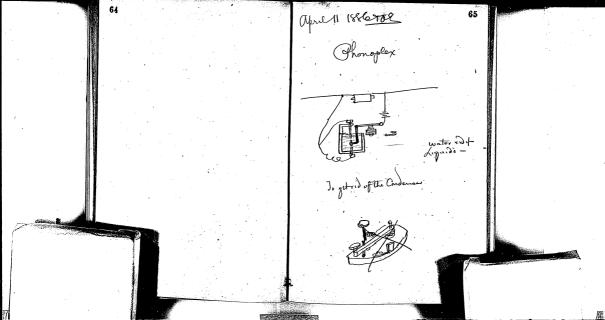
Wind armature thuis, one turn around then before going to . Commilator, start and on another turn round but at right angles + after this turn is made Commutator +30 on wondery whole armatine within way, 1/2 of the wine is available but the atter 1/2 prevents the armature todffrom sending out Ines of force the field is increased with lines Concentraled so we get about some valts as in regular way fruit

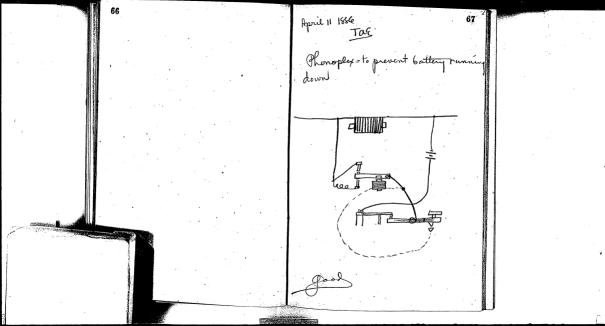


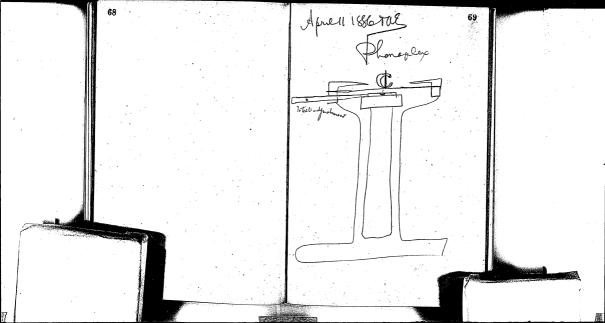


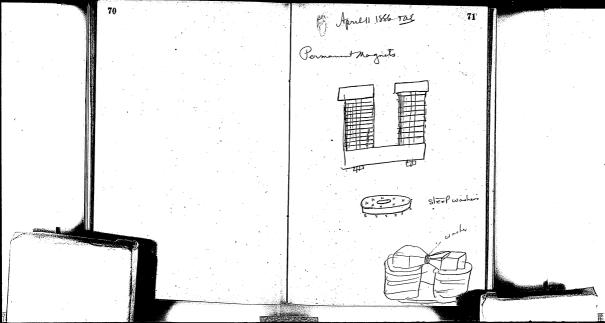


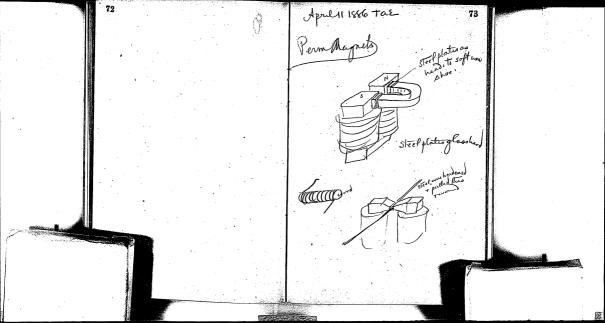






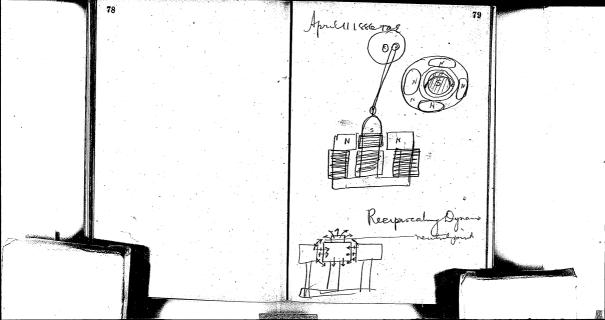




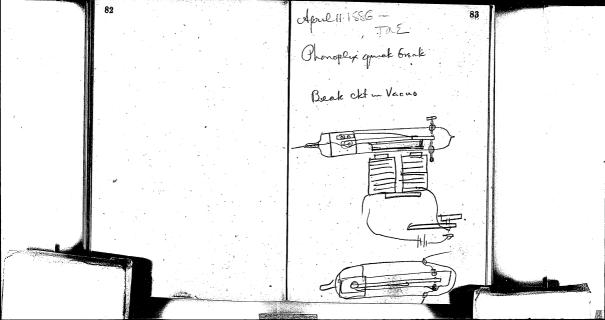


April 11 1886 . Tal Dontforged about maken j Zener of landenser Safely Catch (steet of thement paper turne unparafined - Hyle valta

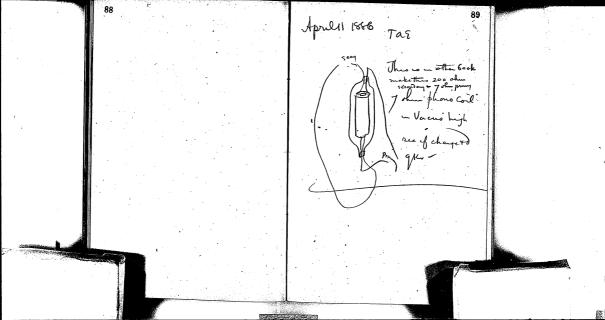
April 11 1886 Tax Telephone Receiver -

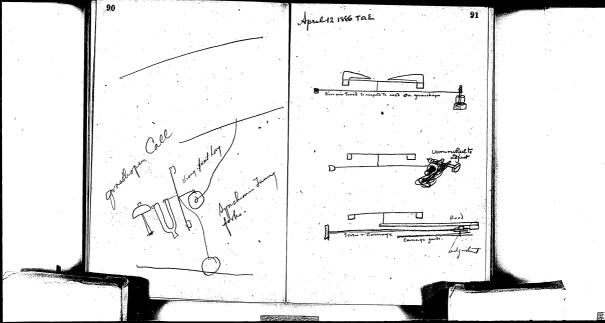


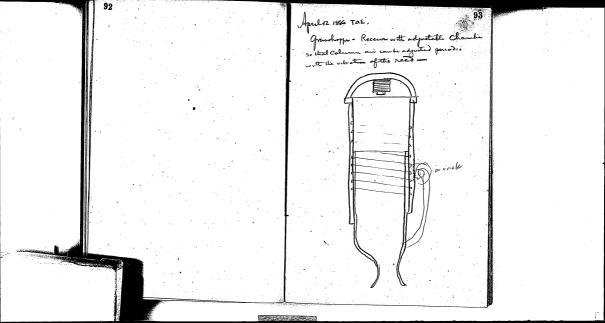
April 1886 Quickdischarge overhanging coil. see of better 7 che Coul with 7 steel we care magnety.

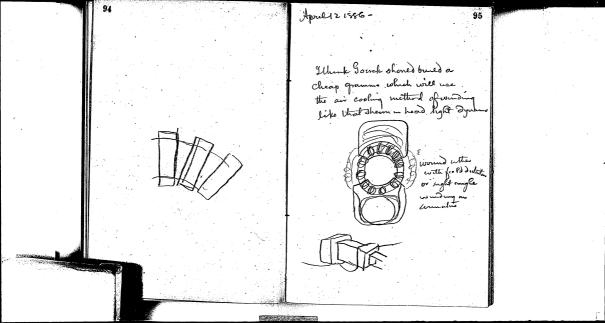


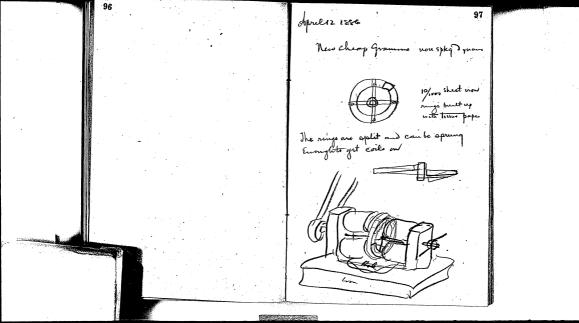
April 1886 Tal Continuous ring April 1860 Tax also see if & reconverted,







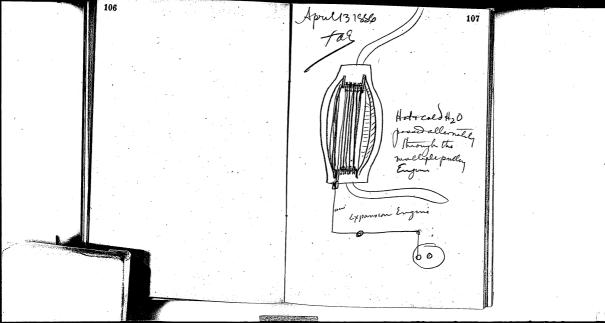




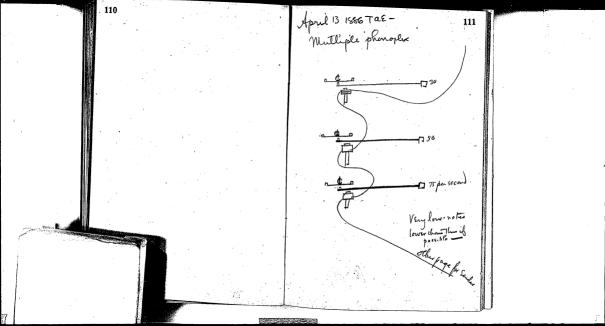
April 12 1886 -It's dontiful is splitting the rung to get cools on is as good as a winding machine Split bobbin run by belt slowly Hast -fast to fell it & slow to unwand and boar core

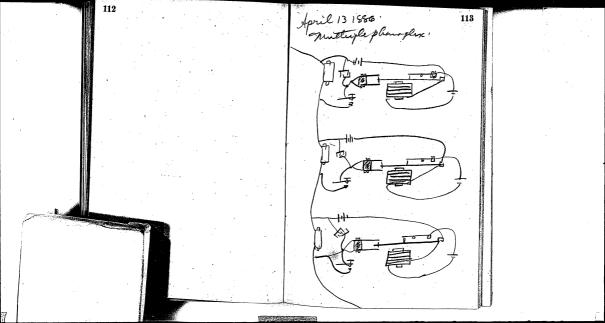
100 April 13 1886. Jas water

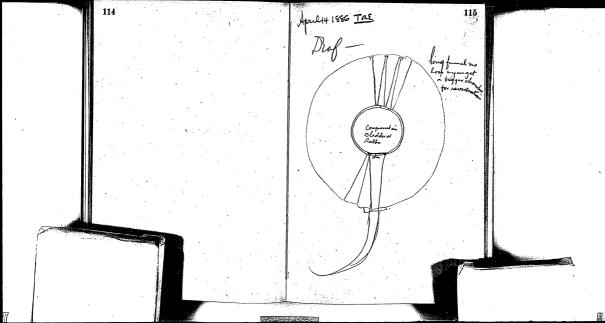
April 13 1886 Ta.E. haliberteleteletelete 104 April 13 1886 Tac HotAzo



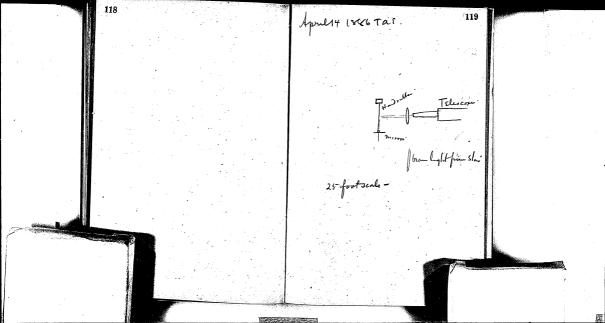
Spril 3 1886 Tal as one - see of the don't do bitter if not make one sounder with 4 points so They will leave & close Exactly & assessment Gullen & Separate Cons around the sporting pour

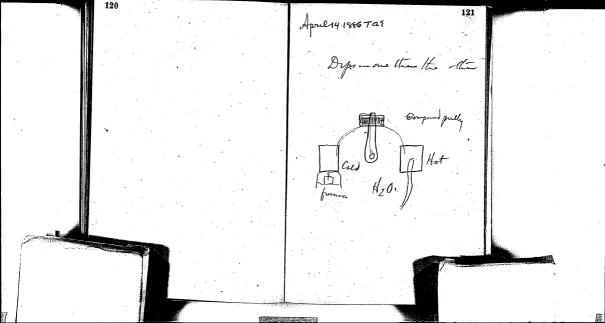


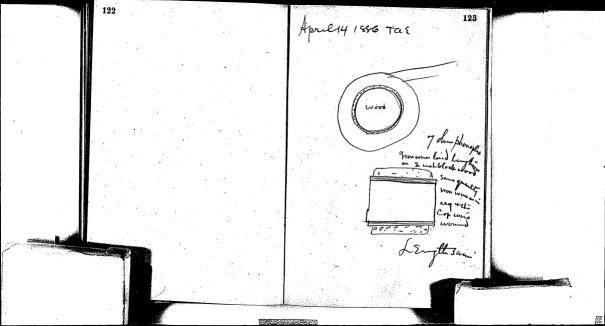


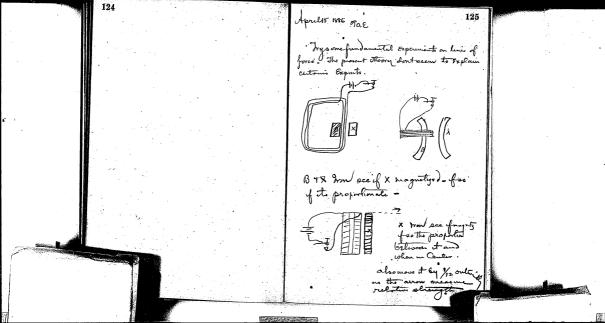


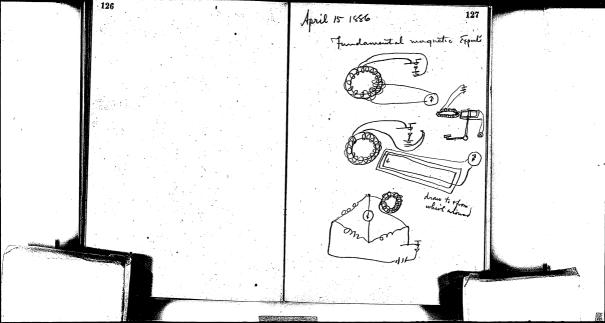
April 13 1486 Tas -Try disalong Licorice in hard borled Lineed oil - then coat tou fail with their layer dry to naturally then recort tell go it 10/1000 Then put in hot oven Meet 48 hou Compound @ many film previous Experient with for don't work well was that the were only naturally drie while they showed be dired to hat over slowly raising hea also Try trosue paper

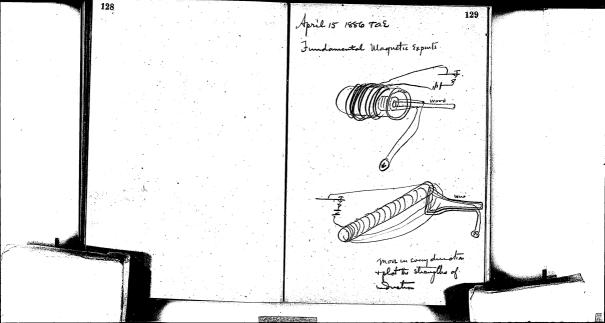


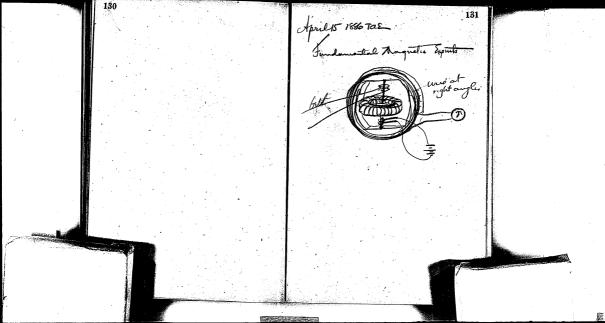




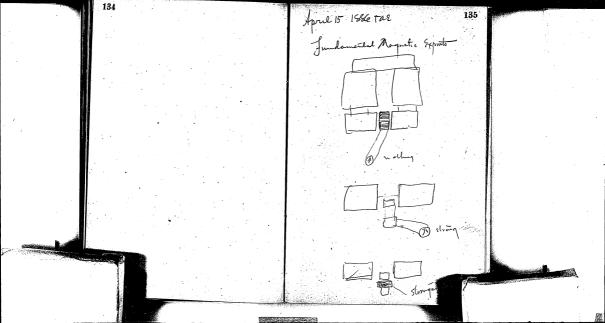


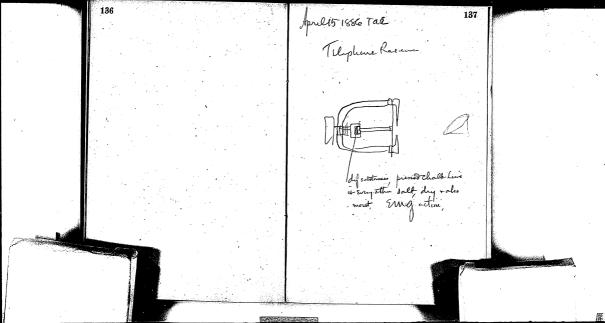


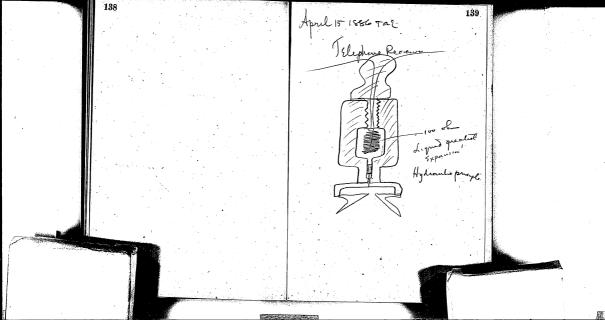


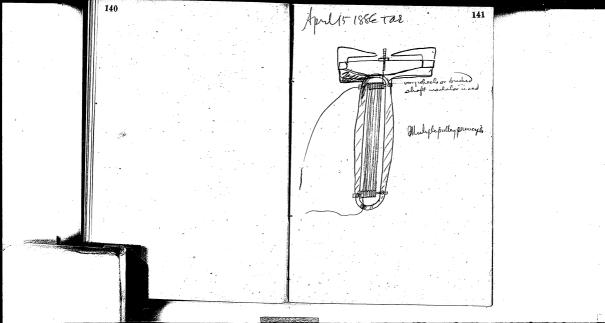


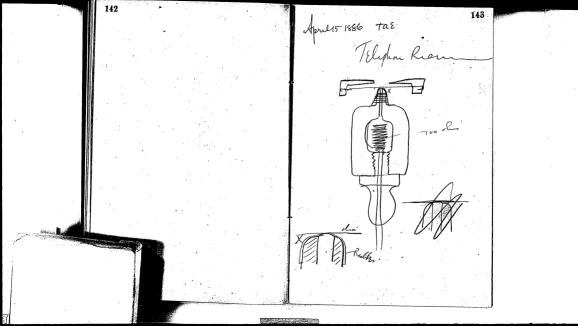
April15 1886 Tas Same length as regular







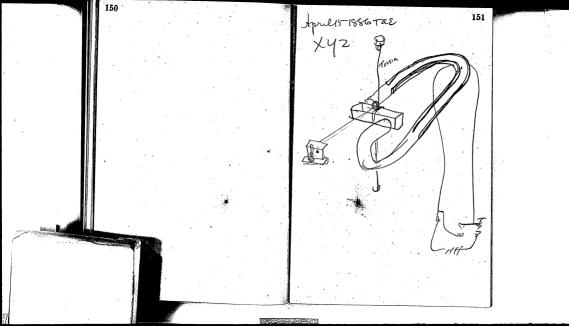


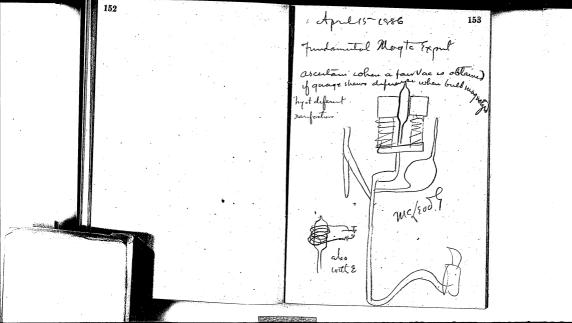


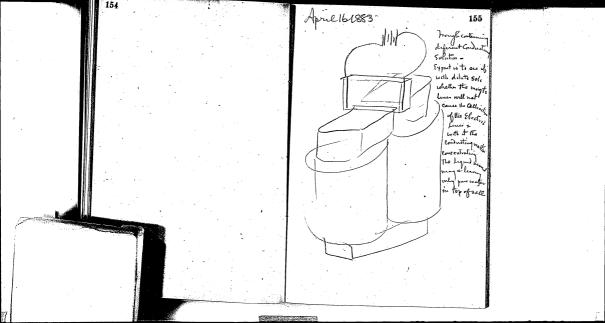
April 15 1886 Talphon Recor all that is necessary is lowings on the class

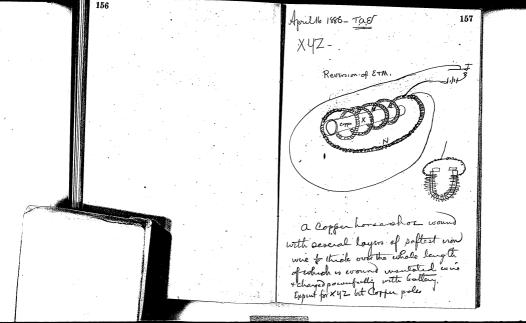
If the molecules of an Element like a metal is effected whom a line of magnetic force strikes one side of the wie, giving a Current in one ducation of when muchy allowing the line office to stuke the other side a raverse Current, Then it is very likely that Compounds (not elements) should be effected different - house

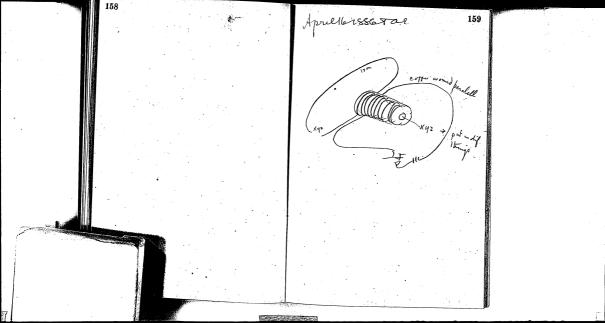
April 15 1886 also ly other right dugles ought to produce al other form Every along The Compound of their produce an altradion. X is trough Contain all Solids metals, my

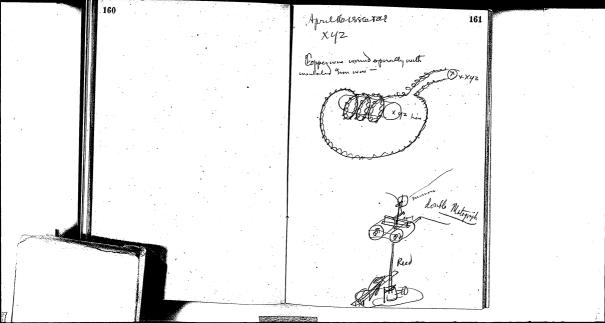


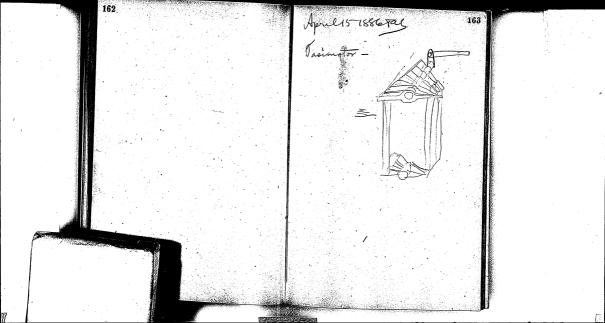






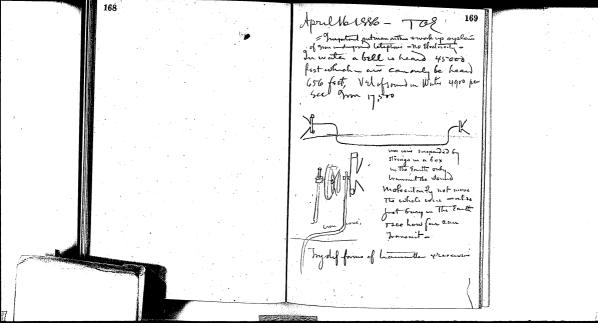






April 16 186 Tax au Telegh-Barometer at Geneva Gen 27.08 on top Int Blanc 15-732 feet obeve sea was \$6.08. Correct Geneva by Sea Level, Than Experience on long Vacium tube for Conducting vibration from 7 oh phonoply coul to Cologhane

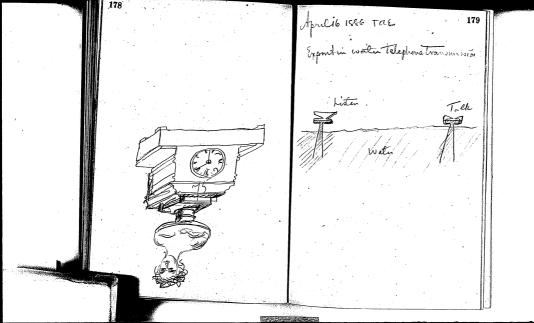
April 16 1886 Tar on Jop Mt Blanc diffact to make yourself heard The Baron 16.08, have The Compressed air for Deaf device a w long openhing Try alcohol or other light waterd Compressed aux for bladder

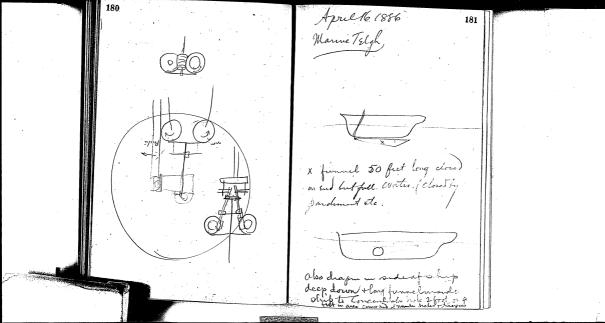


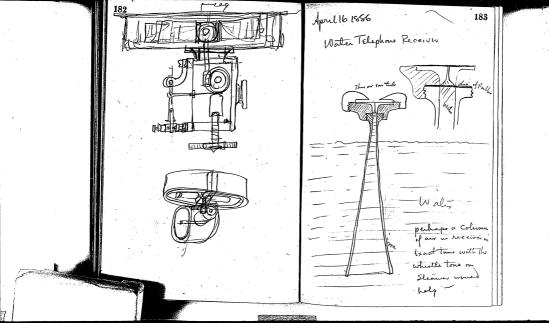
April 15- 1586-Tas Dronwe Non-E Telephone Verhapothe buried un wir could be wroped with loose cutton land lengthmic, + slightly place- This would prevent brunomena of vibrations to ontorde matter Experiment to find a non-conder of found from an non who to matter around it glass tubes or even head tubes with fine prand were in 200 his it sermently Mejout be wal

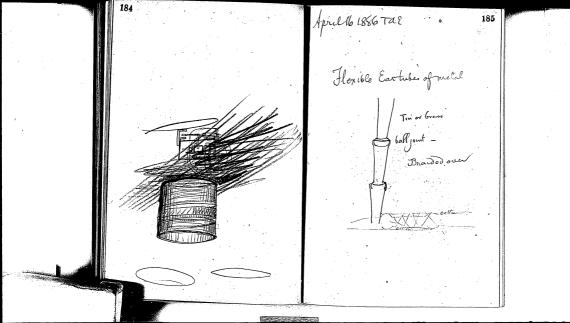
April 16 1886 Tal -Iran wie Non-E Telphan The lead pipe or glass pipe or Even Coffer with fine wire coned have a draploper Joint 100 feet. Schoothof.

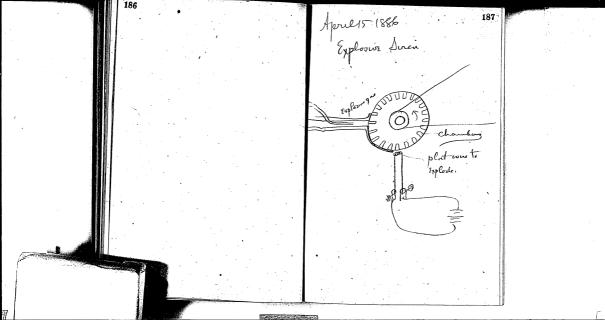
April 16 - 1886 + alas sound will travel so times further in water than air - I propose to run from a steam whitelle are large family tube to waln under the sleamen the End is provided with a deaplinger; or not as Expertwell. determine - by cutting whistle into braks we have dots o dashes while are Composed of vibrations, these - are Commented to the water on another ship a tube runs up from April 16 1886 : 70E or adeapures on the End and a thread passes up to another Thus Evel visuel bring with sending and receiving Commented can be had distance probably of 25 mil a such or heavy orbiting tok may be awayed to give Vebrations to the water

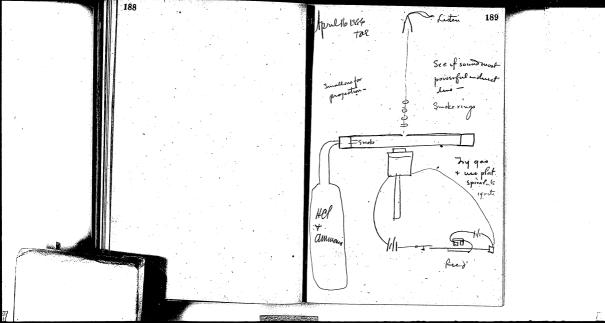


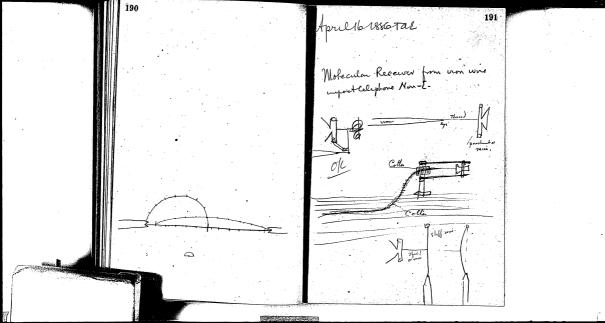


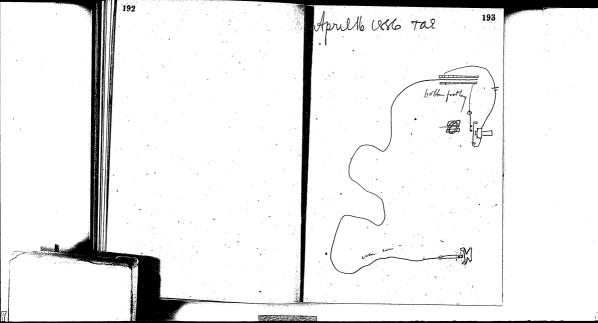


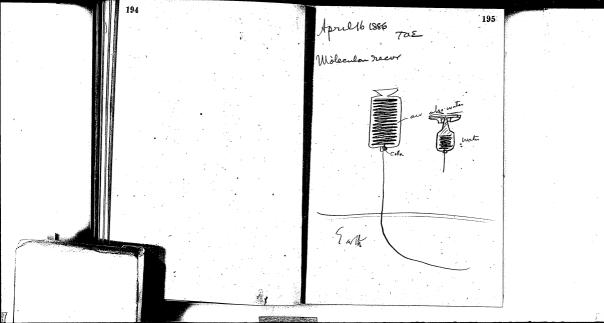












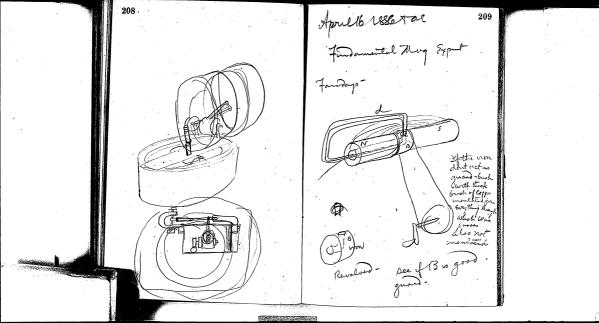
196 April 16 1886 Tas 197 Lesten.

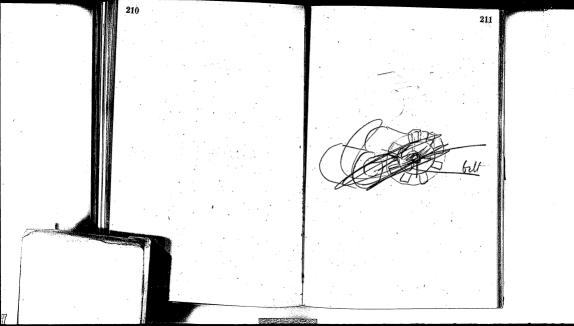
sold - soften + pull out. afterwards desolvet Cabon - Expose fin fel of gelater to Light Bases - Collodin - Cura - gutta percha - Balata -Rubber de dued - Bengol or Broulphode Contra which Rosin of Vanni other Herdrolling disalus until Bed Reduttant film has alight Elastrathy - Exten length by work by working out the Candy with Rubble

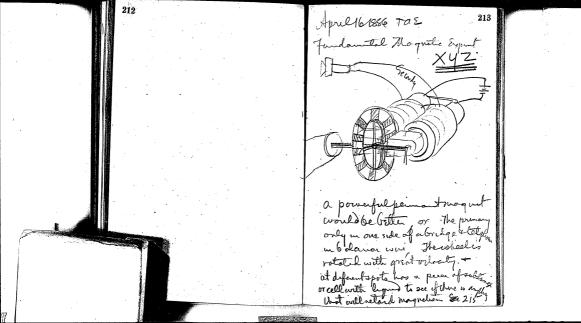
April 16 186 rak lide with great p

April 16 1886 Jak Separation Cream from Wille The Electricity the porous Use porous deaphing

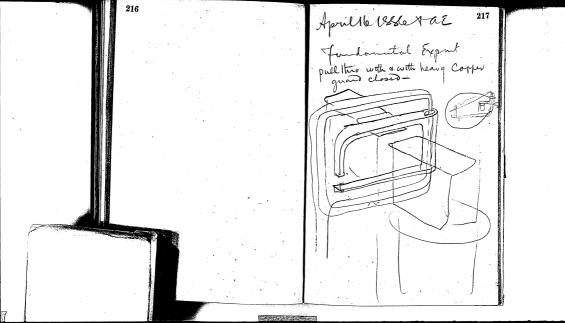
April 16 1886 7 as 204 fundal Magnetic Expl X Steel Mag-wove of from N Phonoplex Coil, sheet wound use forl copper with con being 3/4 - fine war was





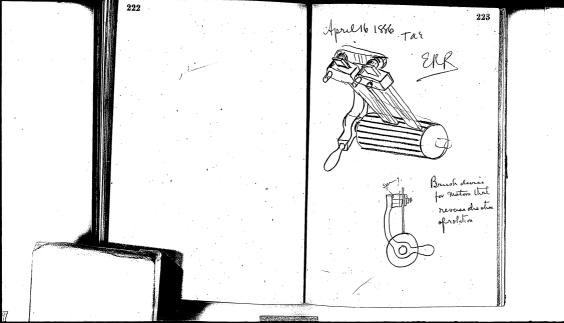


214 lines of force and the wheel is disturbance is created without the production of Electricity or



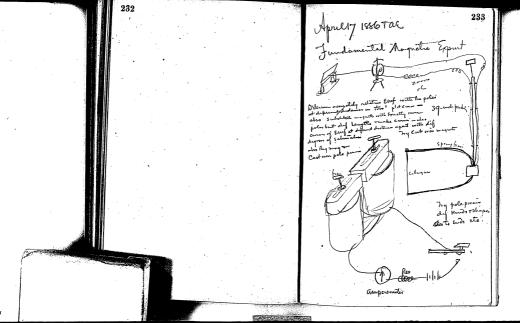
Efective penspools no may x liquide to substantite field to see of the Elicture field disturbed,

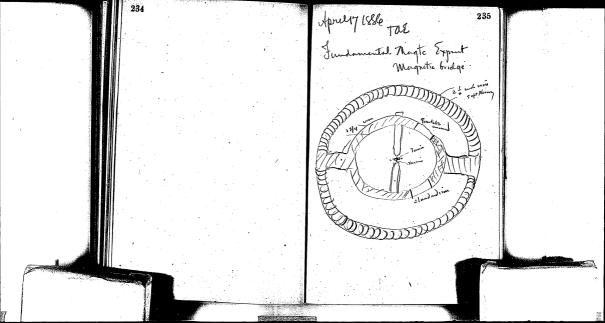
April 16 1886 Taz Try desalving out butter oil with Bisuphias ste - Then Evap Bis

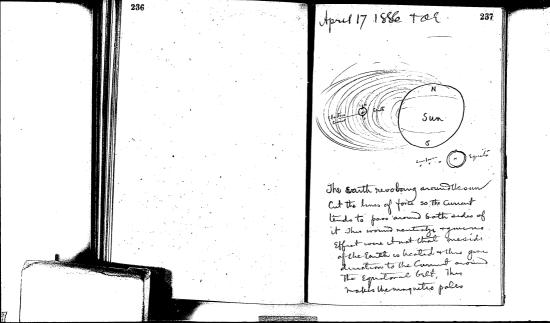


April 17 1886, Eleckh 225 Workupedea Centrifique Clutch Knowing undersa 226 227 Carba The partie below you Continue Coper 2 re bream was wound perport

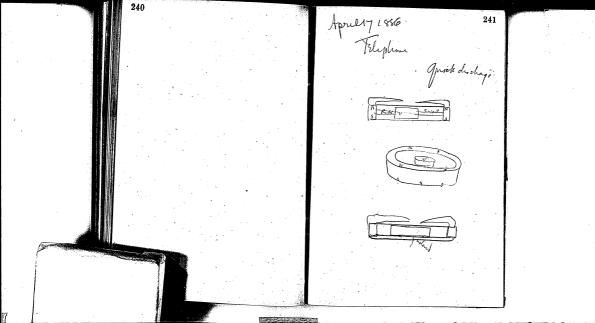
If Electricity passing in a is given off - heat, Than a ave ander some kind of polar unmount gue off sholiverty when the same is conducted along it from high to low Applen of feat to a wind Cellowing it to Conduct to the a magnetic fuel onglists give should 230 Hilly wocell Wind wie also shoot both duration - Rubber 4 other Cylinder

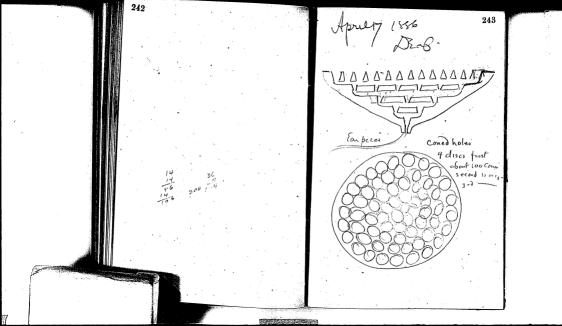


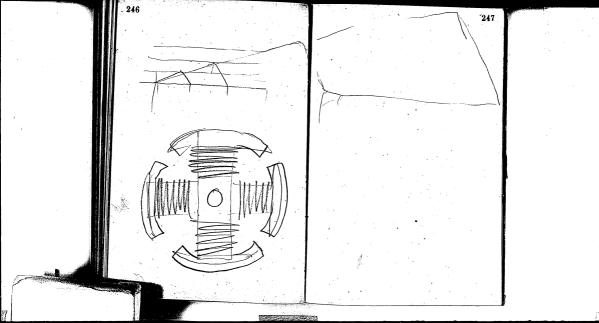


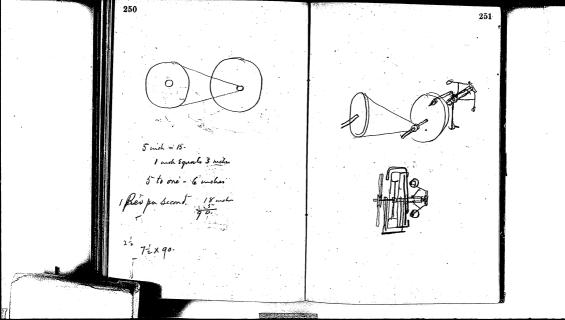


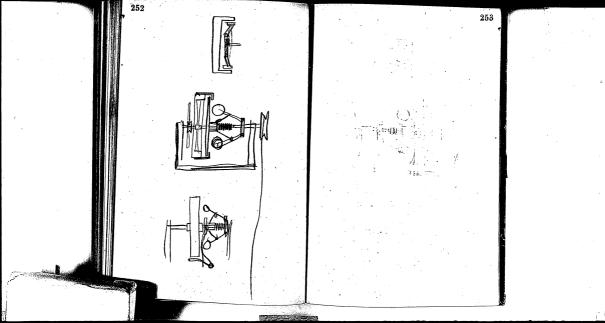
and The Electric Connent & Consequent time Courses the othershim to the sum the orbit of the Earth. a the point where the landeren In a stranger home ! Coloner Fractly by the Wentuck altrodion of the Eldus Count

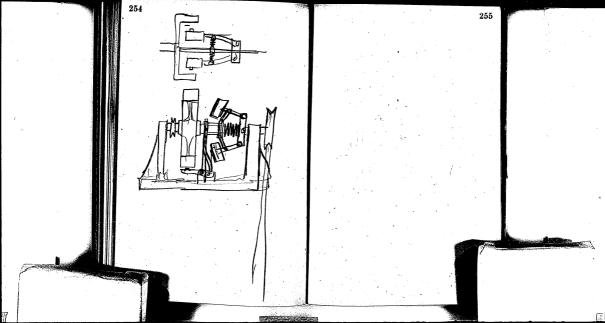


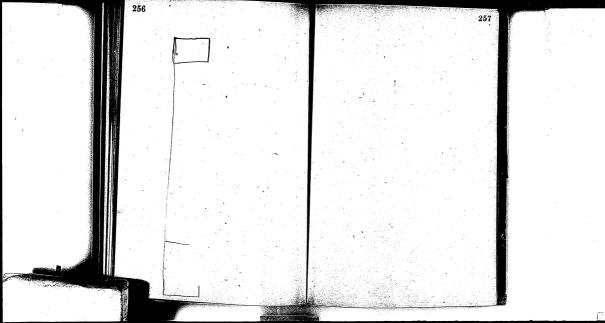


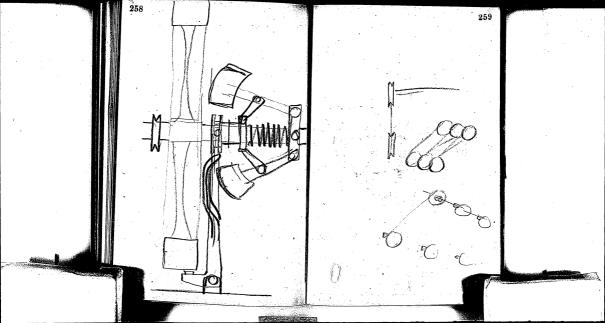


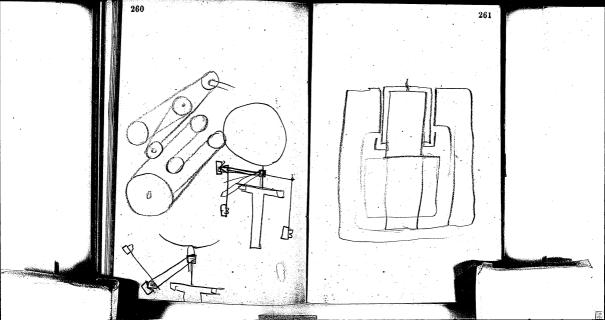


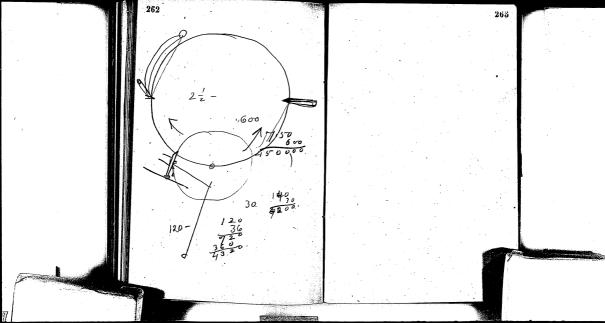


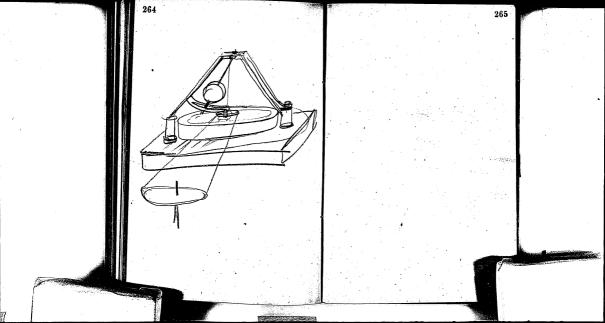


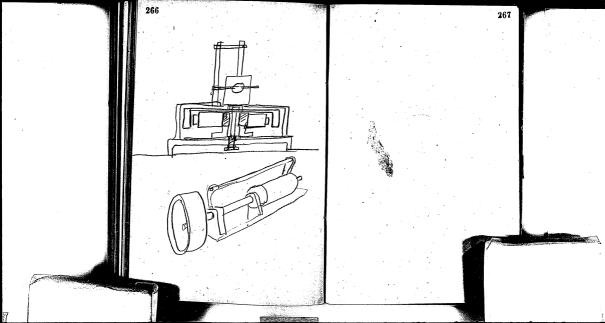


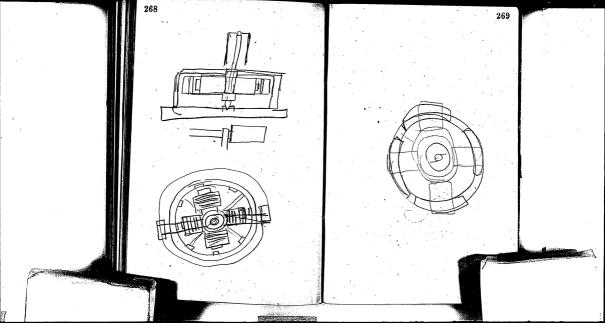


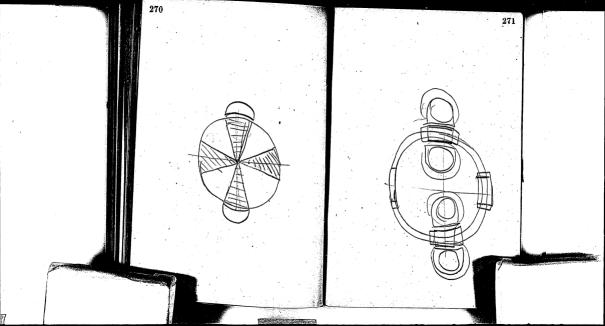


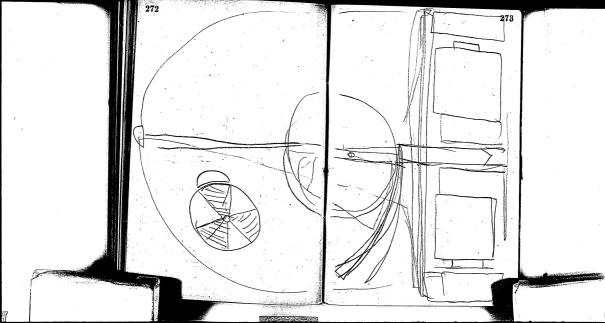


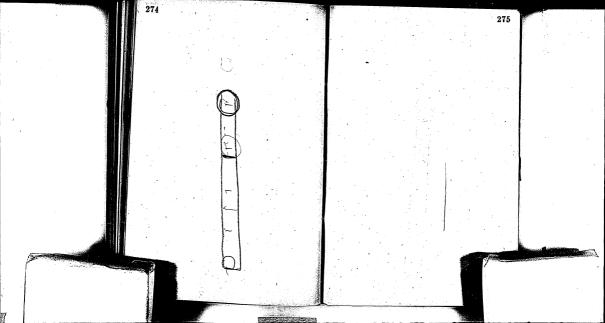


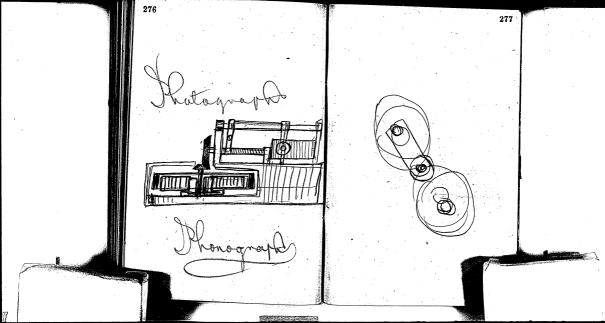


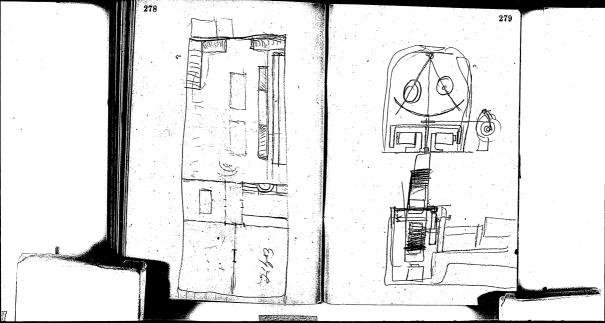


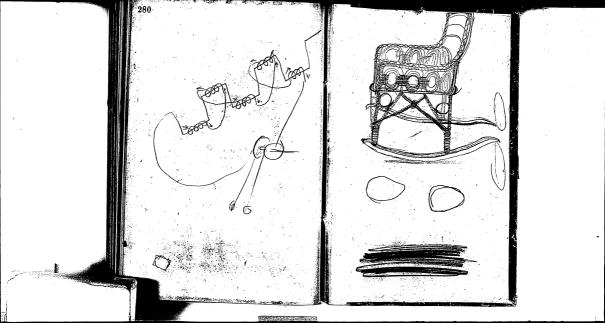








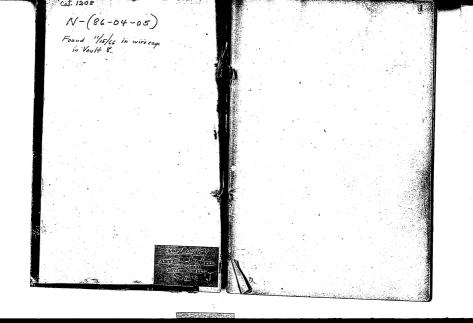




Fort Myers Notebook, N-86-04-05

This notebook dates from April 1886 and contains notes by Edison to Eli Thospon, who was in charge of preparing the Fort Myers home. All of the notes relate to plantings for the grounds. Included also is a drawing of the layout of the house and grounds. The front cover is labeled "T. A. Edison Memo. Book." The book contains 284 numbered pages.

Blank pages not filmed: 2-3, 46-47, 54-57, 60-284.



20 feet square. you can probably buy these I noticed up by the wind mill on the Island up in the narrow Channel of the Calakousehatehie, lots of bananas bushes; Shall want about 1000 pineapple, Theheve there one two ways of planting one of which is longer but Trees It might be best in cases like this to set out duplicates very close logether at the end of a year of both should grow the poorest one can be cut down This will insure having at least one, hedge moide fence towards woods The lemonts because there seem to be a page variety it you cauns formself from soledo from

procurable have. I saw near Jacksmorthe some very fine Decan trees, please see if you can propagate slips from The nuts procurable from the stores, also, propegate blso soft shell almondo Brazilnuts, Date palm from Dates procumable in stores, English walnut, Fillerts -Trocure some fig tree ships, and sat out about 1/2 dozen put them out towards the old house as they are an inguly tree, I don't know if There are any fig trees around here ignot per you will have

to get them from Jacksonville where there is a nursery - Major Evans will tell you about the nurseryther on what you can get there, as peaches grow in perfection down here, ascertain what period of the year when the season is not bookward that the peaches repen if they report as early as april 25- or may 1st set them out perhaps there is an early variety 1/2 dozen trees will answer; What time do grapes repenhere of during on stay which well be herafter from January 15-60 May 1 st. Set some out

We want a strawbory patch. about 20 by 100. of best call braning Strawberries - also about 25 Current bushes, also a bed of Red and black Rappenie mixed - 9 think a see a bed about 20 × 100 will do for Goth, 10 affigator pears, House of 10 Sapidilles 2 Spanish gooseberry Frierson had one tree last year

Ithink as to brouge trees across the road - plant a lot bear during our senson ifin one wel do. Ithink you bitter plant some

I wonder if plum pear + Scheman Crab well grow have Aso put at Couple of each I will send you from negate on my arrival Deveral good Gooles on floriculture + Harlienthus ete, also as som as possible Ship you a full cold to go to posortment of seeds and bulbs. I think about 1800 you a supply of good garden truck seeds the later your

Can plant at such time well mouse us a good + oregular supply for the table During our stay -I propose to have 4 acres Cleaned across the road and a board fance put around it

The garden truck & propogating beds can be placed our here; you should set out plenty of Extra ships over there so in Case of a faulure on the River side lot of a shoot you Com bramplant & Louppose Cotton accd will sprout a grow on the part of the Country any time if so plant so we can see some while here say 10 or

15 hills -I think perhaps the strawberry bed night go across the You botter use some af the Latetiers You are authorized to have Gebout 4 acres clearned Which I windersland a

man who has change of the place next to all house will do for\$ 35 per acre now I want it perfectly Clean of Energthing the pt the large trees evan if it costs anchorged to build a Goan France around the whole ساوسه

Ishallsen you way kin Also procure 4 Cassage palmento. about 8 feet from the grown

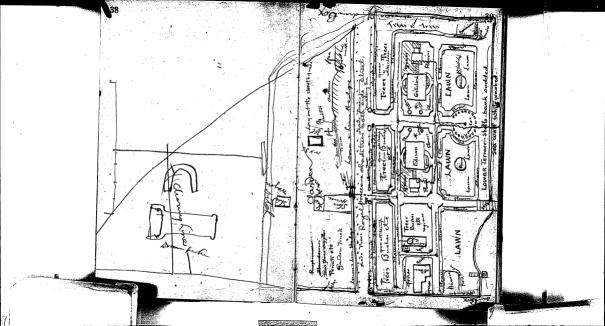
What I desire in the flower line is a few nice ones - of Every varie that I can procure, you should carefully study the 600ks I send retaling to the Care & planting of the flowers, Iwillsendyou about 1000 yards of Common print cloth, which you can place around the more tender Thoots when a freeze approaches This cloth will prevent radiate

If run through boiled linese oil thing out until dry it will prevent raduation will also ship bane boiled oil -We propose to have our ground . the test manual in florida Therefore you may order for the River grounds, 6 Ton of oil coke two ton of phosphates, and two ton of greans - and for the garden 14 ton of Oil Coke 2 ton phosphale

and 4 ton of guano, providing the grans does I think you ohomed go back from the Servin or look for block muck fresh water muck, Theo are plenty of ponds Gode of Myers which appear to have block ground you can have a cart or use the lighter tyout an get it up the rever wheelen Ut to light by whoelbarrow

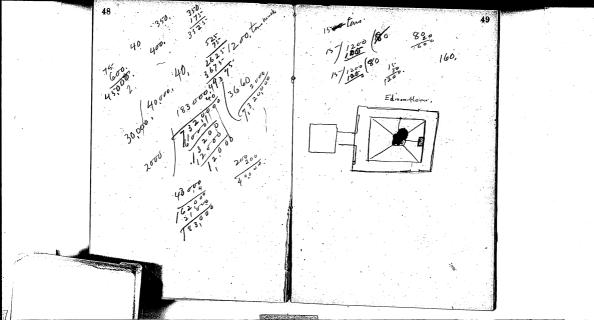
It Evidently wants some fine decayed febrous goingy motter like they are putting with Coconut hales to had the manine of prevent it going clear through to China - you can doubles, discover a good spat get it what is accessable don't stint it but procure plenty of it- I want to carry Everything to Excess down here you will probably have

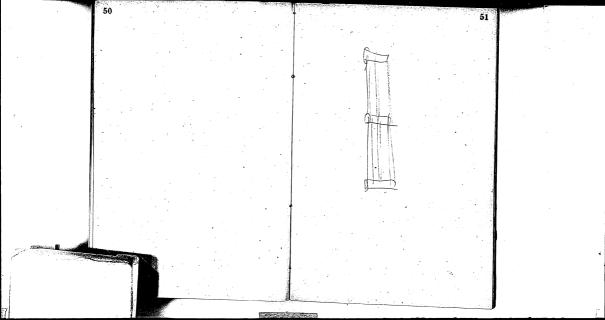
Utunk you biller get one botter shoots of Bumboo plant them Reeping them well manued + watered, Therey trees will grow put out 2 or 3, Oxkeart.

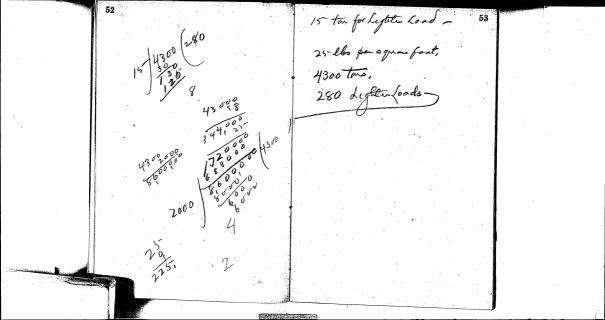


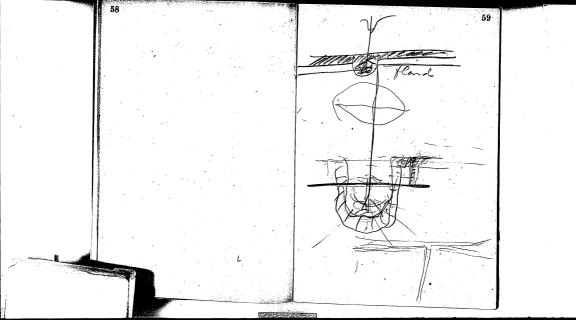
square of tobacco - garden 4 Trees of gapanesse 1/2 dozen gooseberry 2 apricote trees House plat. I mulbony trees outsides any tropical fruits you among the Oranges get at least 2 mandarin Orange trees,

In garden set out a derible row Augu can 50 foot long -Plant - ganden dozen hill. of poor mans dush ray to a species of squash plenty of stanguline, Want two hives of low bees for our flowers you Can purchasethese about 22 miles from myers on the rever road to Parkinson or up the rever above Parking





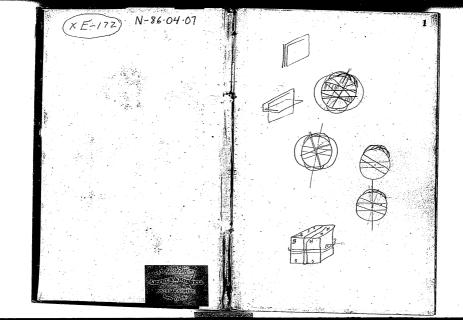


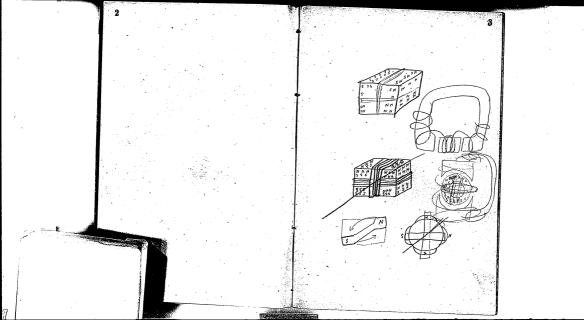


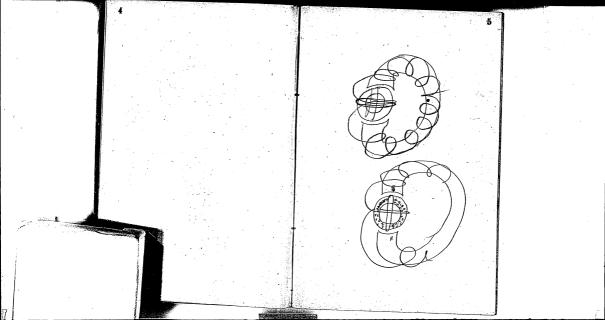
Fort Myers Notebook, N-86-04-07

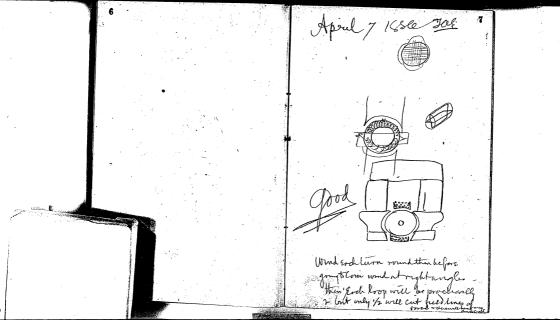
This notebook cowers the period April-May 1836. All of the entries are by Edison. Many of them concern the direct conversion of heat into electricity, the lines of force of the earth around the man, and atomic and molecular structure. Included also are notes and detuning relating to armature windings and connections, the phonoplex, the grasshore strengers, the trasimeter, electric railways, an archimedes screw to propel a stemple the manufacture of slik, and the separation of butter, cream, and water from milk. The spine is labeled "22."

Blank pages not filmed: 42-43, 92-99, 214-215, 242-243, 276-286. Missing page numbers: 17-18, 263-264.

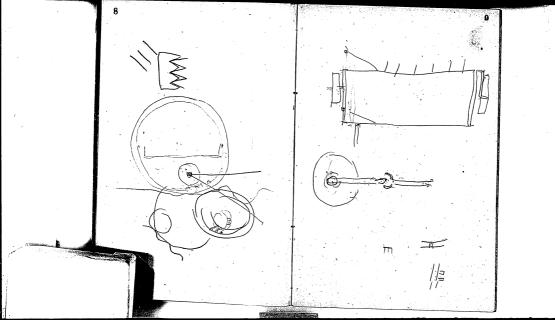


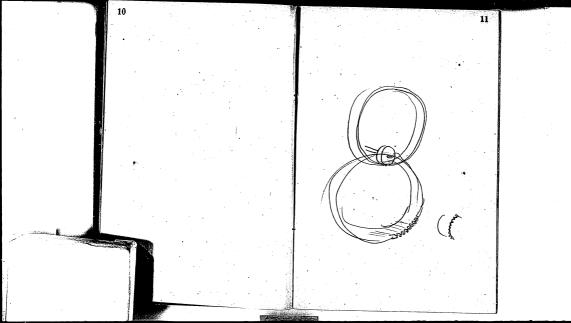


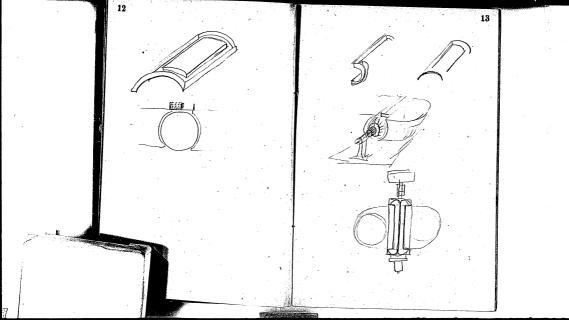


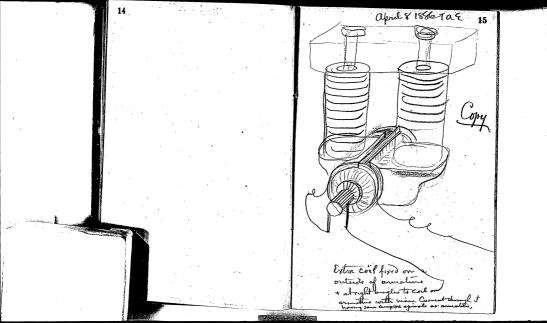


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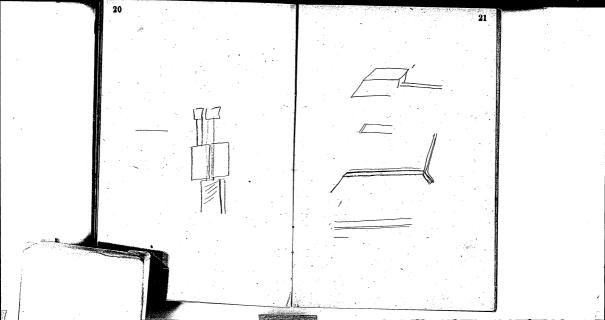


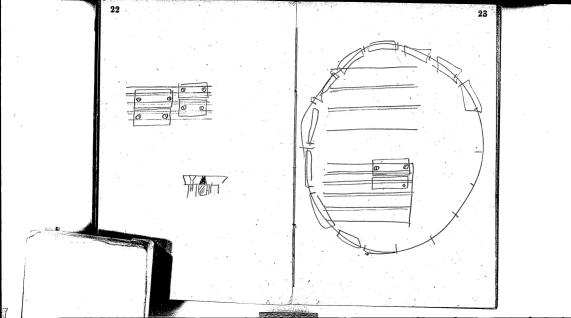


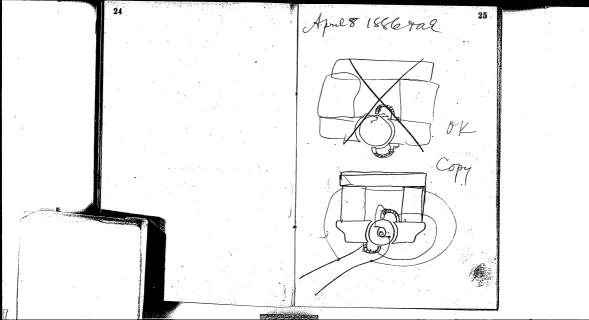




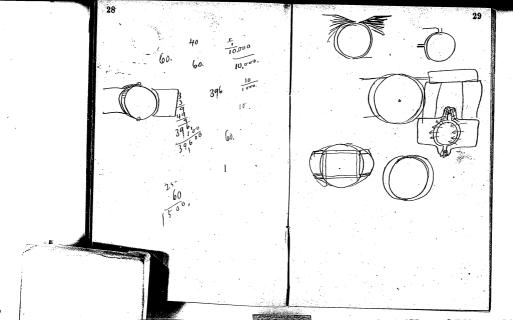
april 8 1886 Two seperate and destind wandings on one amature each with separate Commutator 60 vatto coch - The Two are connected in some as Otthe brush as no the Curent of one tends to wake



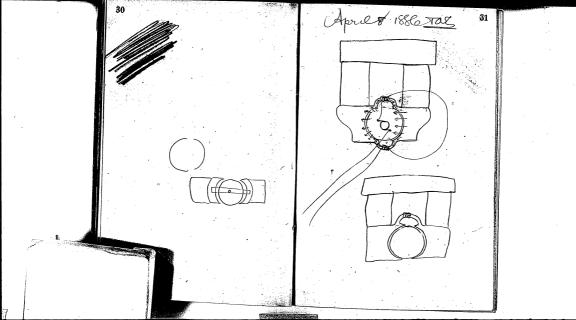


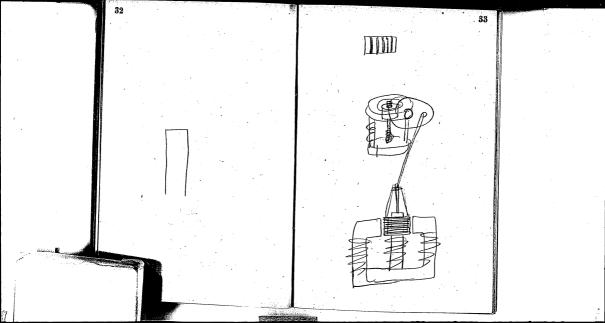


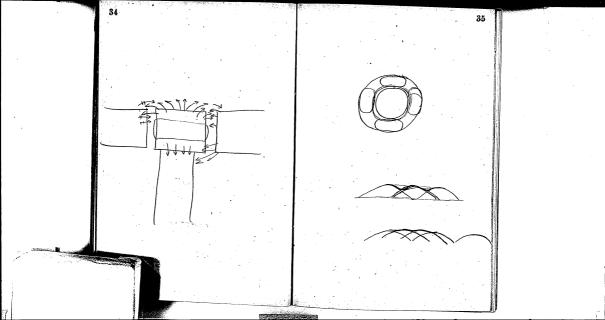
april 8 1886 708 Wind armative thus one turn around then before going to commutation another turn round but at right augles 750 on winding in Gregular way Thus 1/2 the wife valueless but helps to Corrections the denes of force anyway owing to position

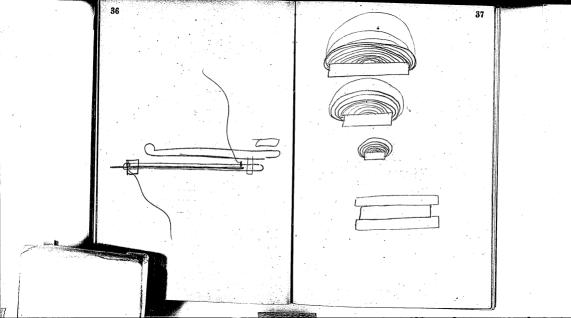


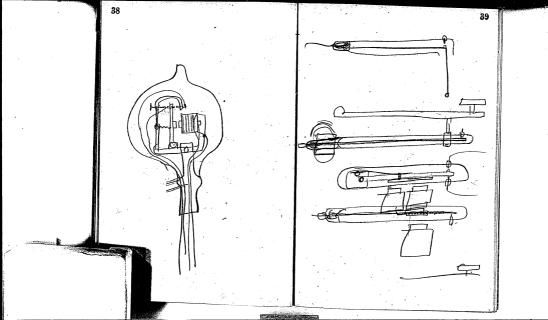
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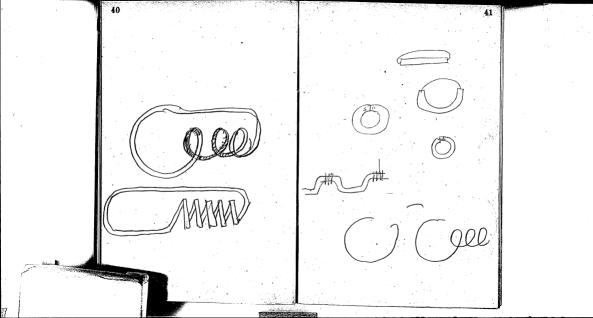


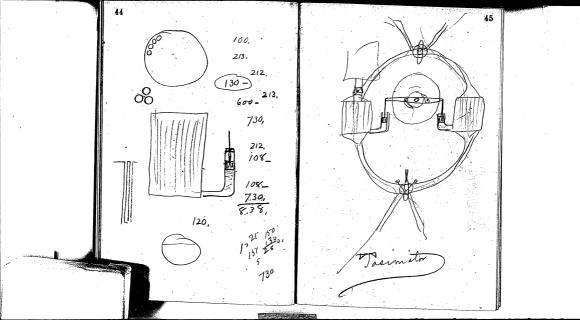


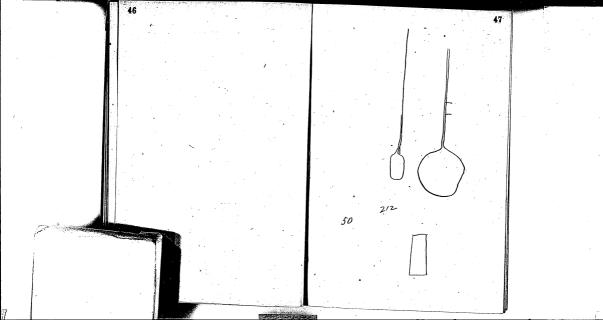


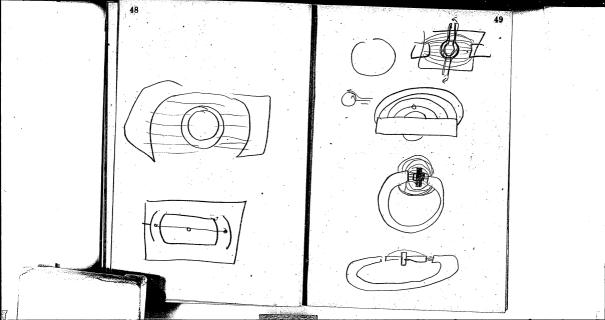


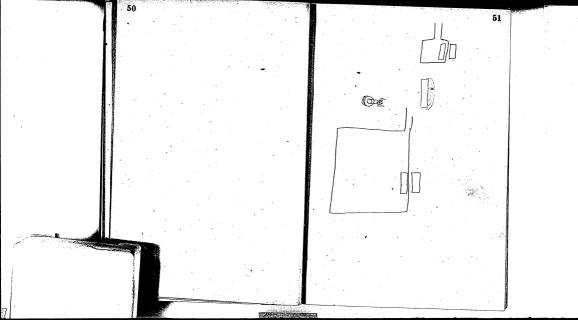


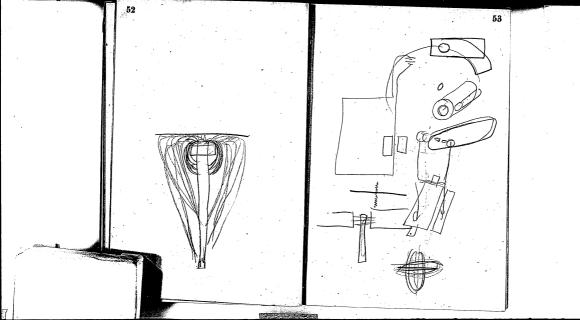


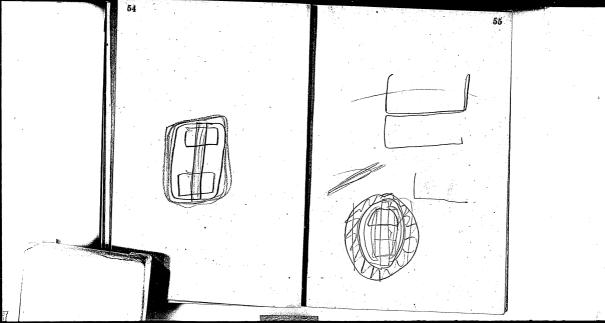


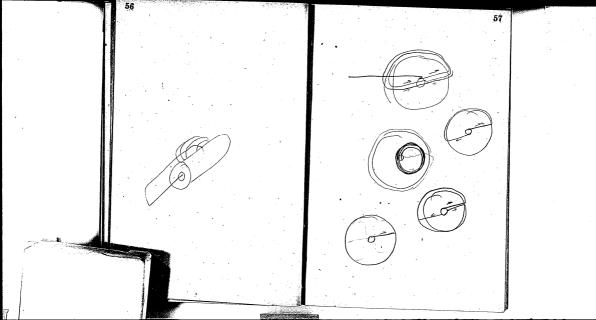


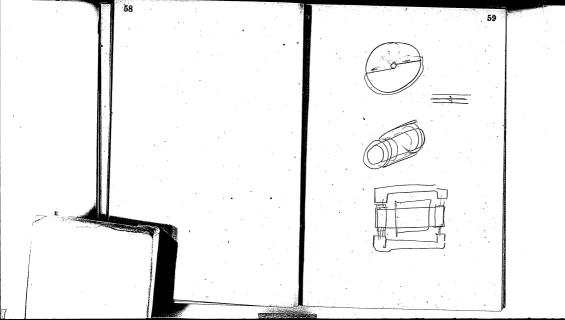


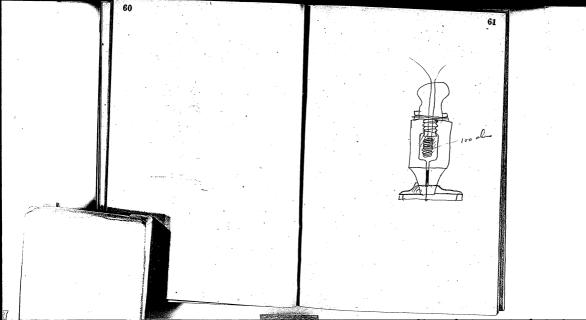


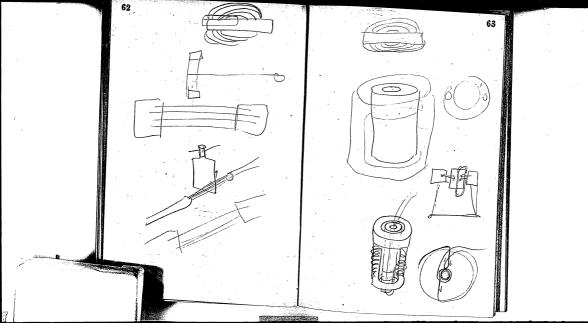


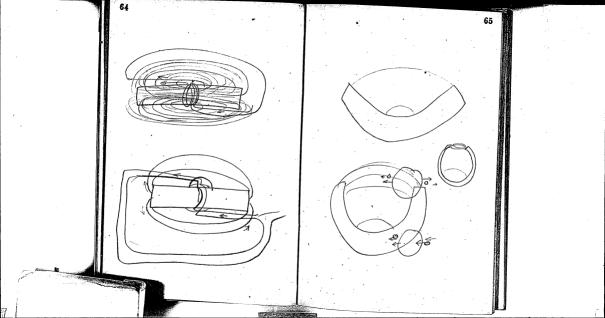


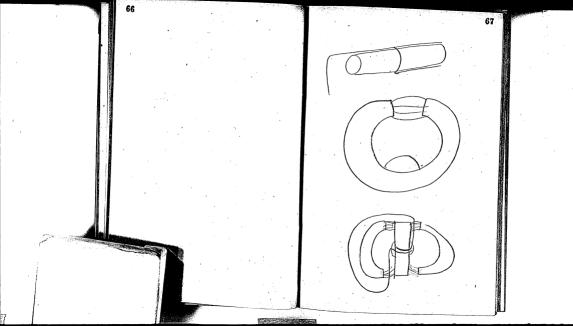


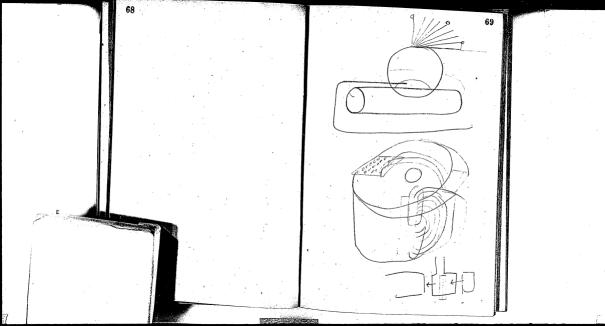


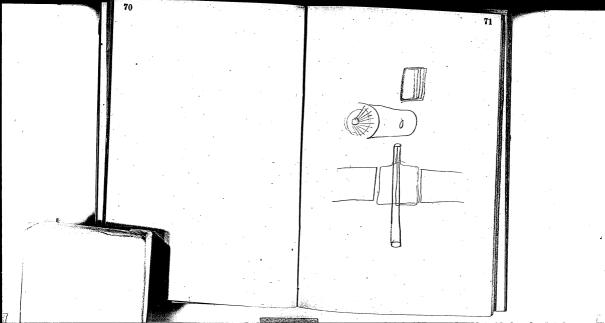


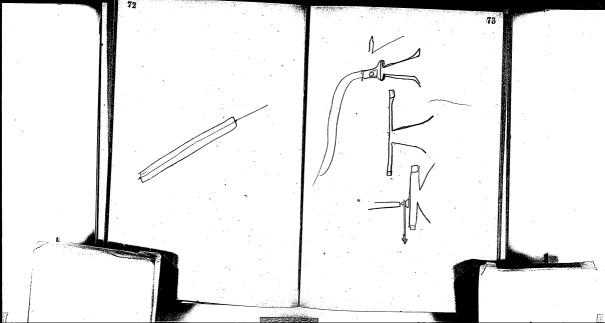


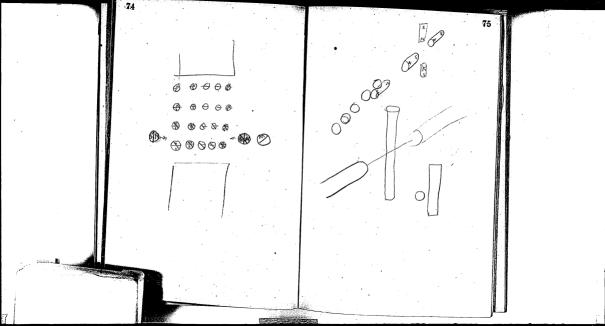


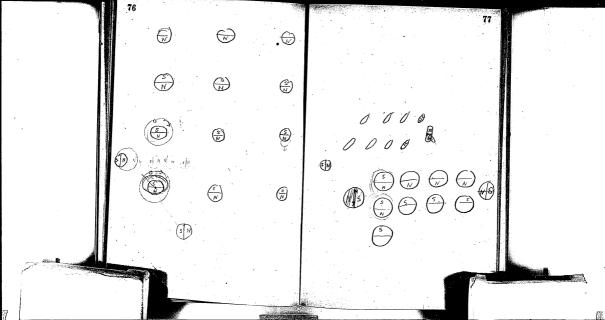


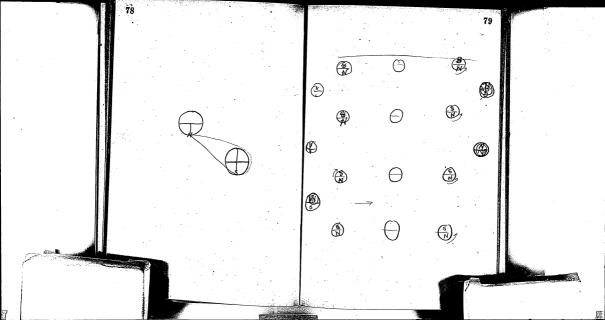


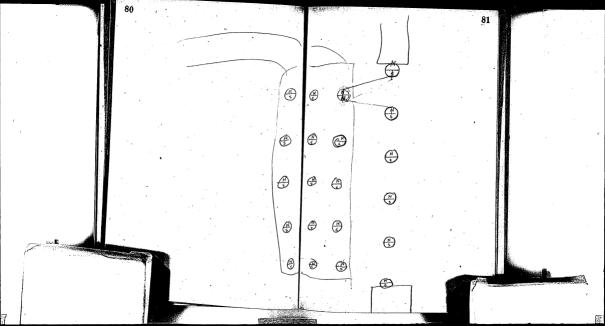


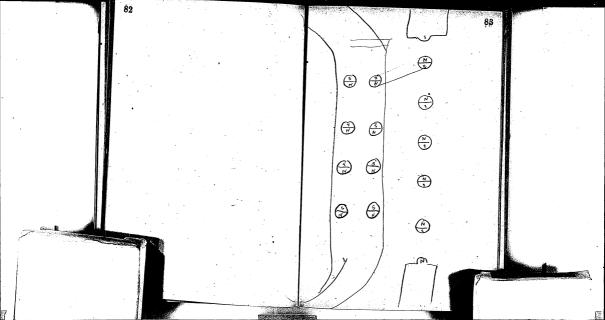


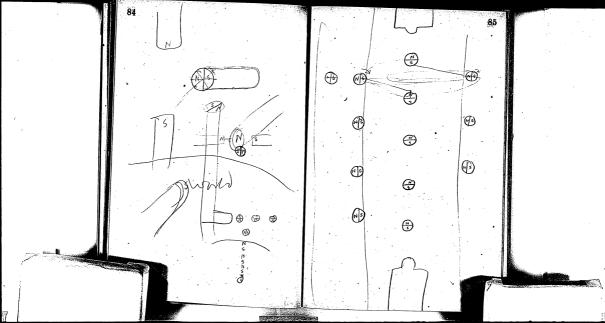


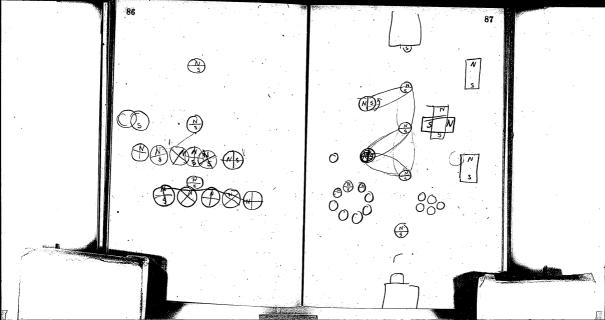


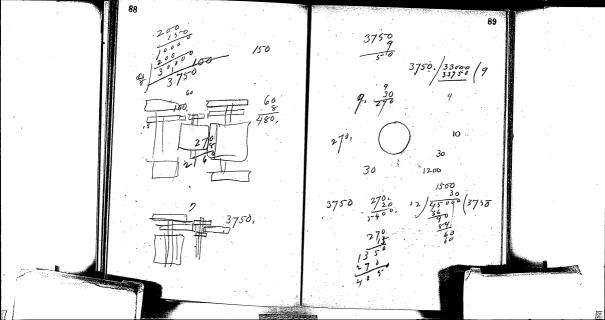


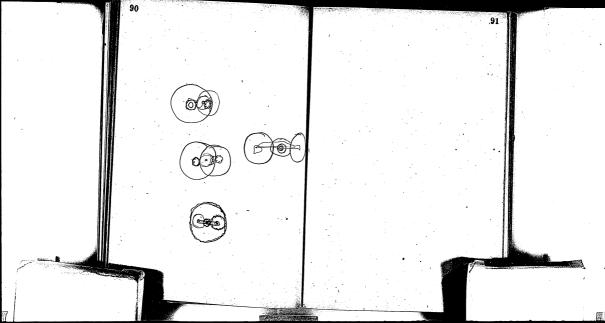


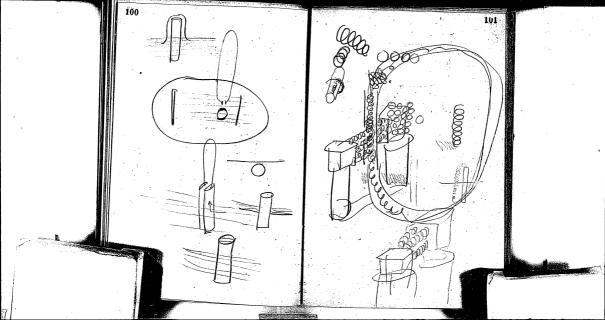


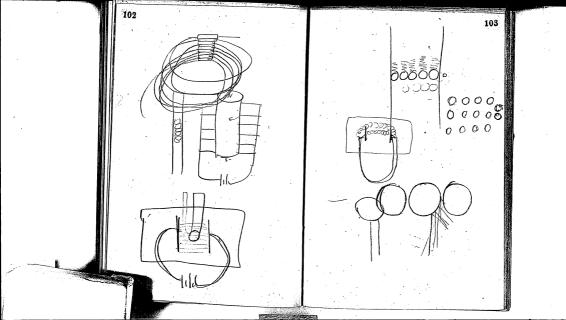


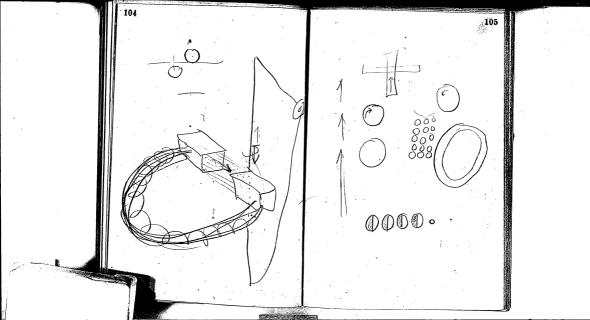


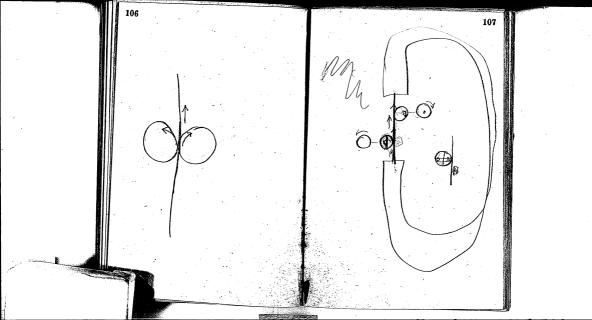


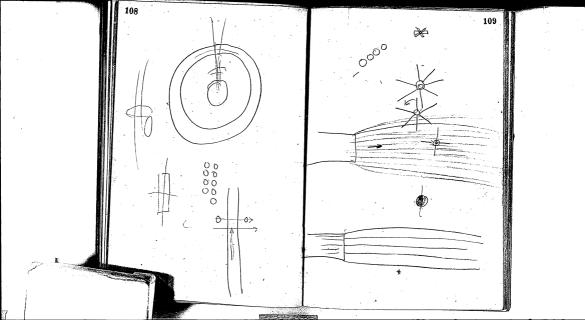


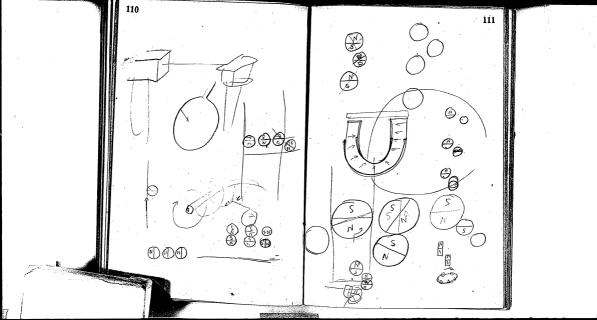


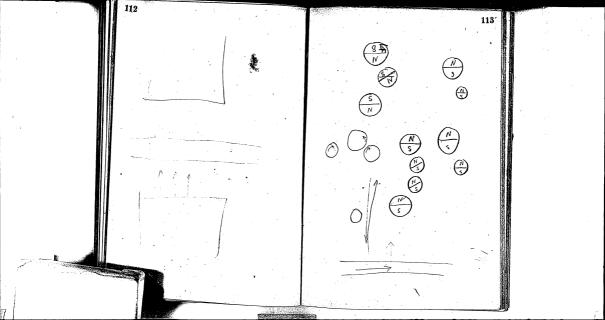


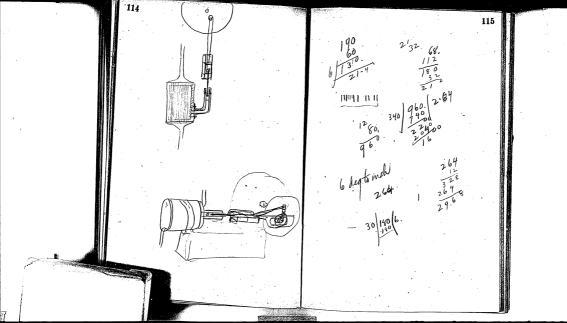


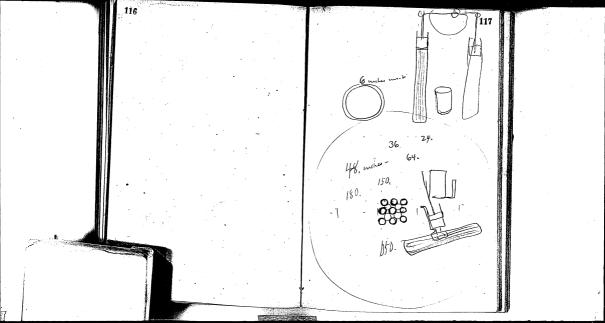


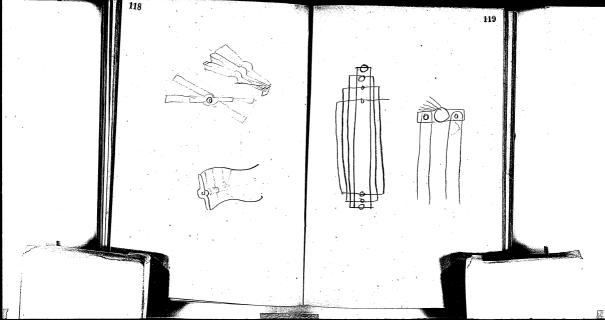


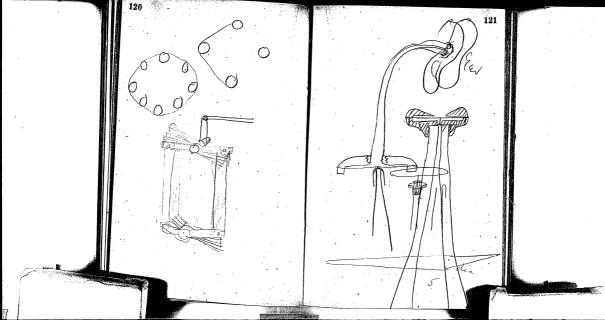


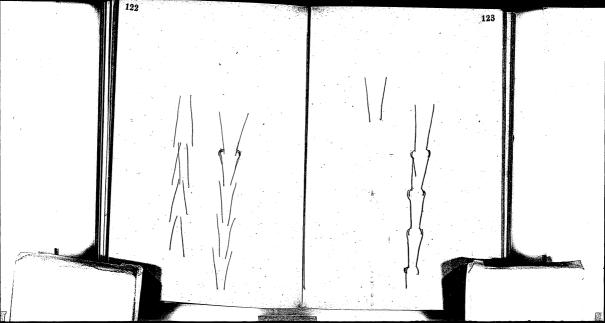


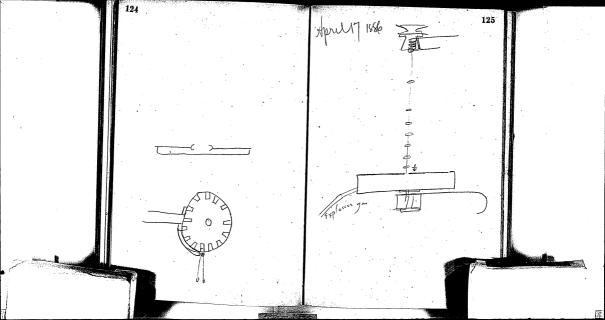




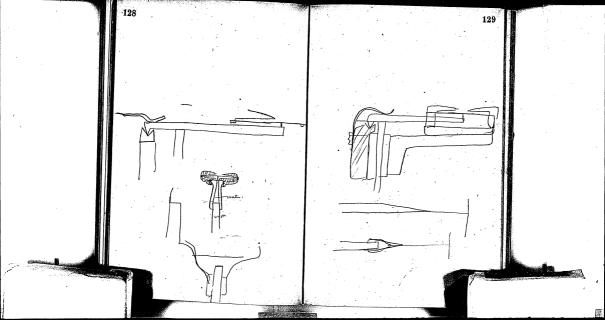


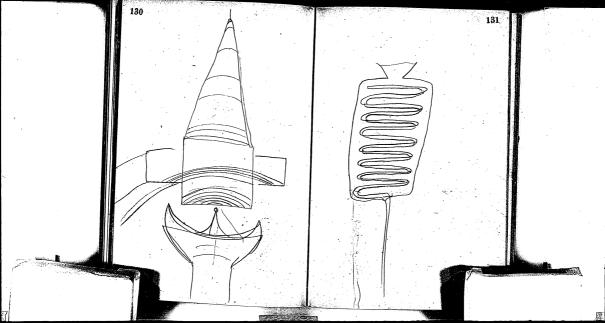


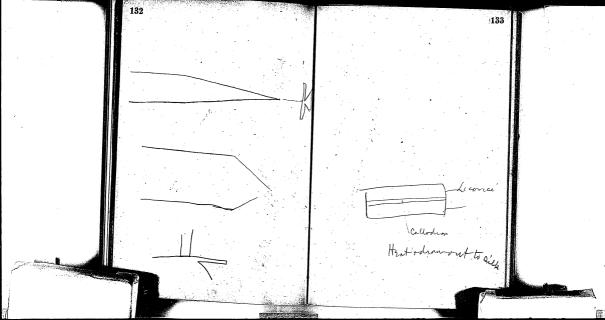




april 16 1886 708







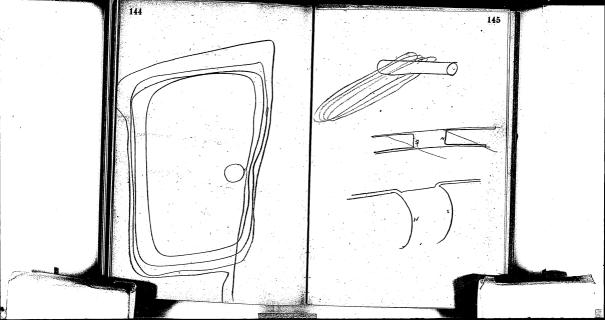
April 16 1886 nifr Seleglue myed with Bichomate Potashim proper portion & Enclosed in Aydrocarbon drawnout into fine filment then disabord in a Sulment of the Hydrosabon + resultant Bichingo glice which - mobile -Exposed to sun to rander insolumble

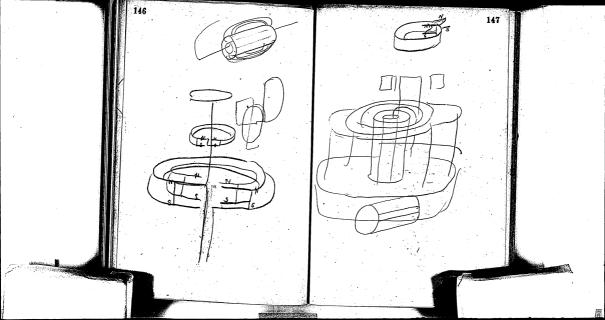
Bases - Collodiai - Cupric anim paper gutta - Rubber desolved in Bengama Broughedi - Rubbin - Bengal myed with as much Rosin + other Hydrocarbas (5 yput) as it will take a still look neverted by ether with Hydrocabons, - with Rubbirto Exterior conto be glue, Licorice, Malanis Carly - a febre of vain length could be made by working malanes comby with one sover by pulling- many Ruther political or Balada & Rosali Company

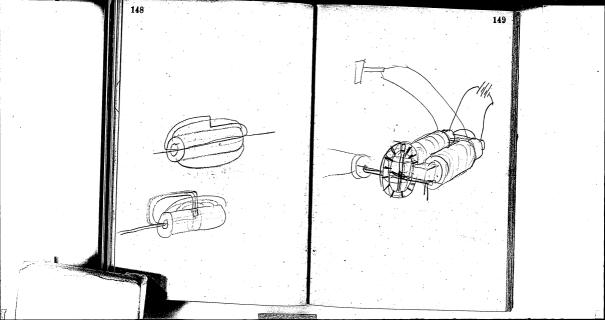
Milk forced in very freelience at great delocity against an Exceedingly time point outfrom breaking globale this moves down angle I board stowly while milk

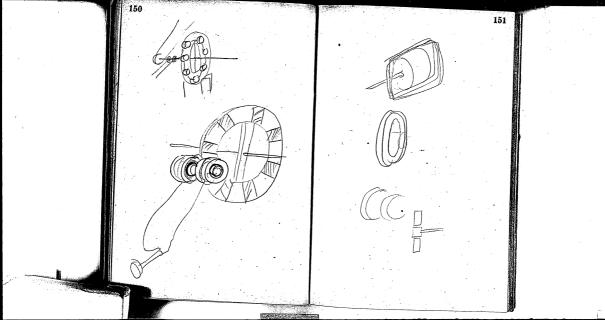
April 16 Cesteras Try Graham Dialysis also Electraly through porous Use porous deaphins various Thekness + substance use air pressure on receprocation to free the pors of globules therest use Vocum to draw th water of mick - theidea is to get the water o leave the gradul

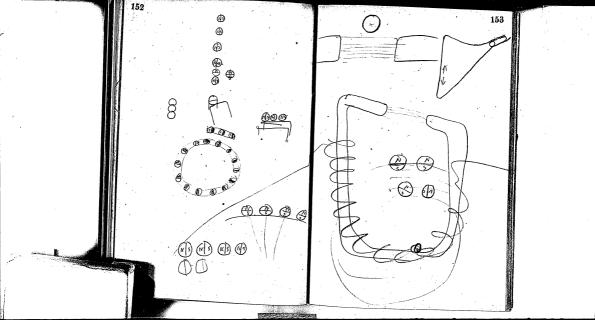
Aprillo 1886 Tal Separation Water from Mulk Freeze it -Lutter globes

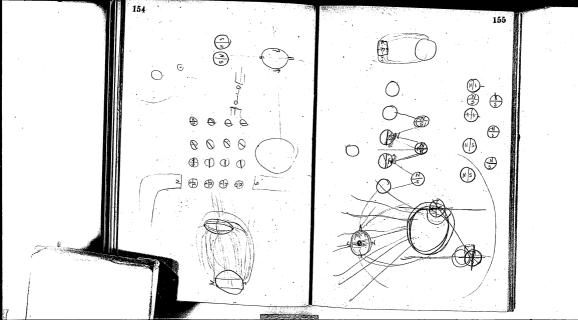


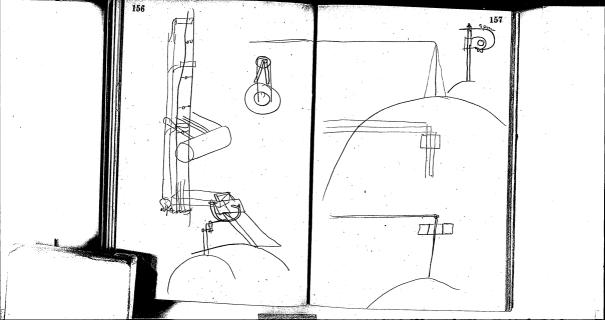


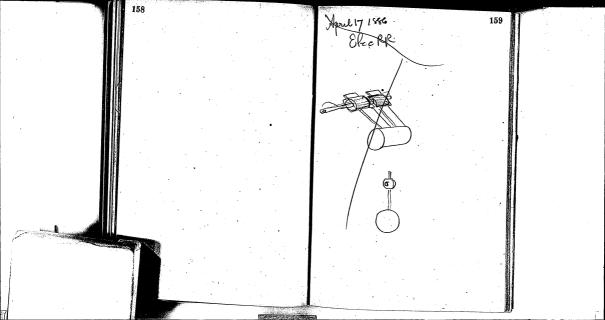


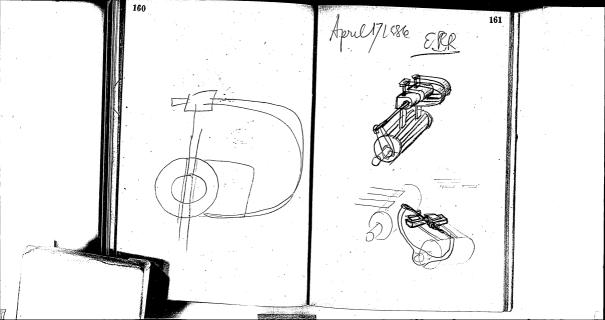


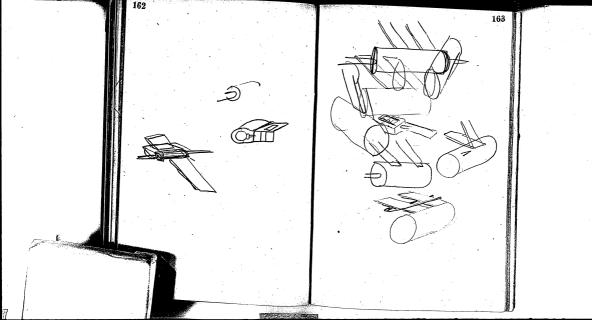


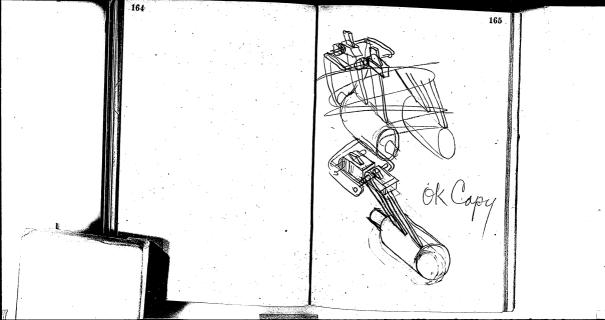


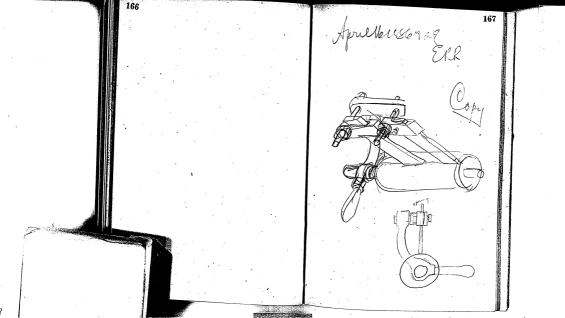


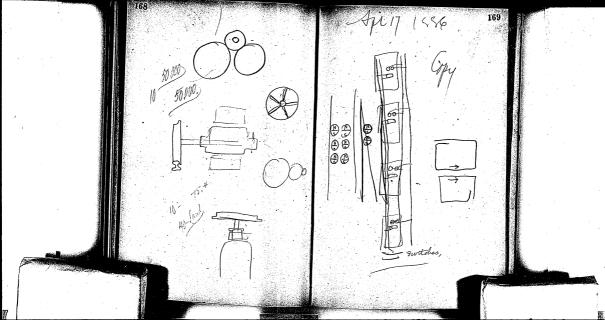




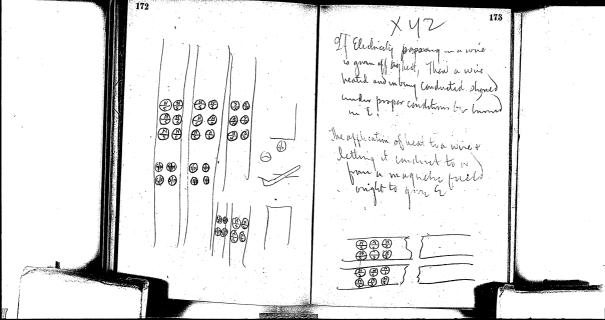


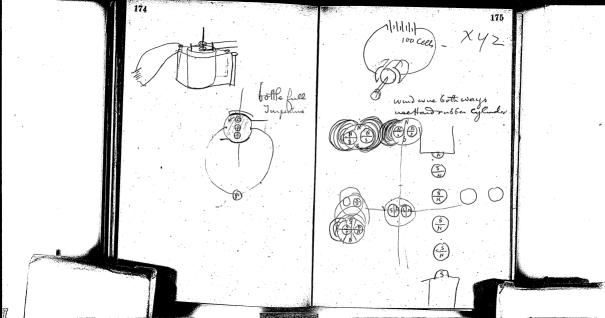


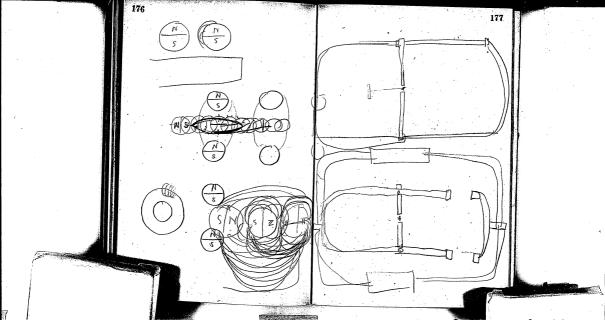


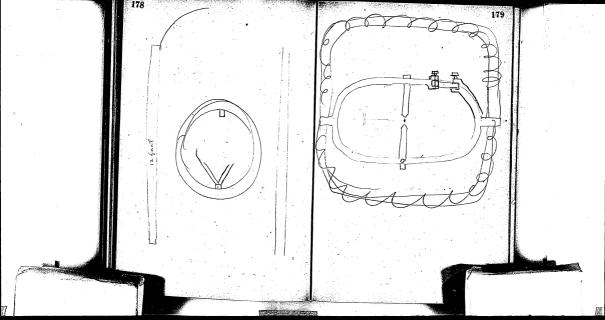


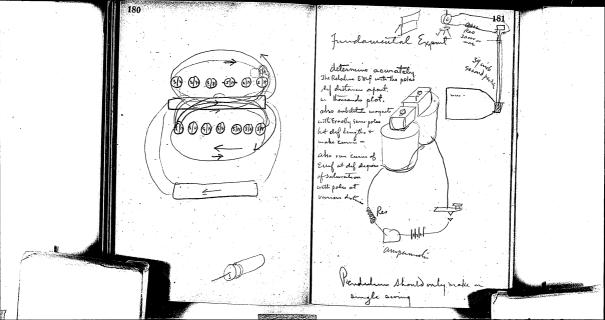
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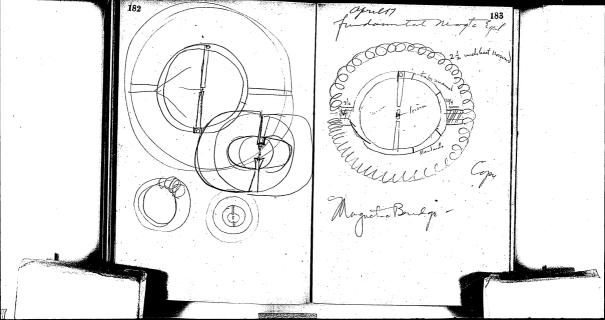


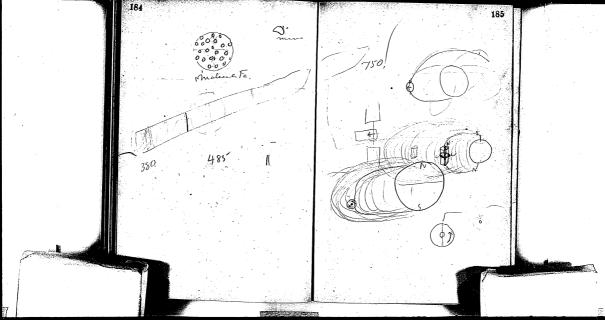


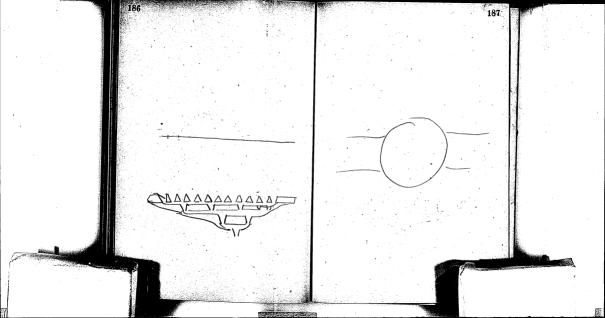


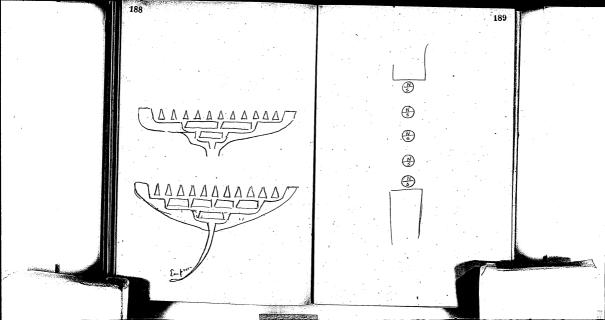


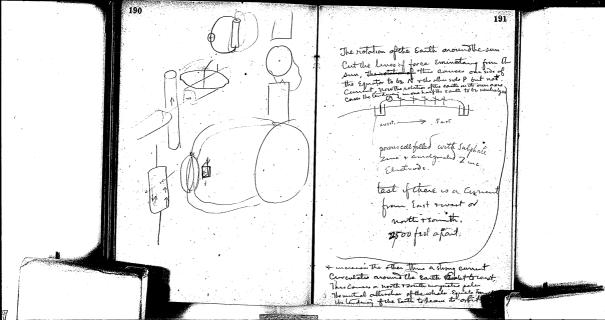


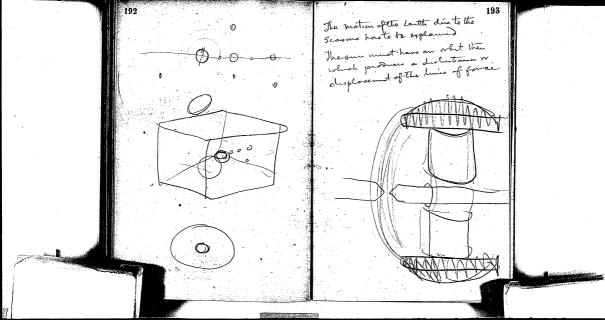


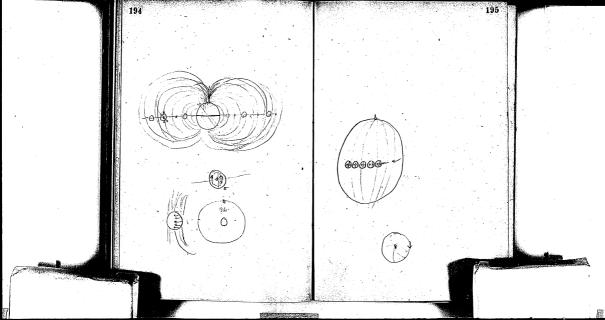


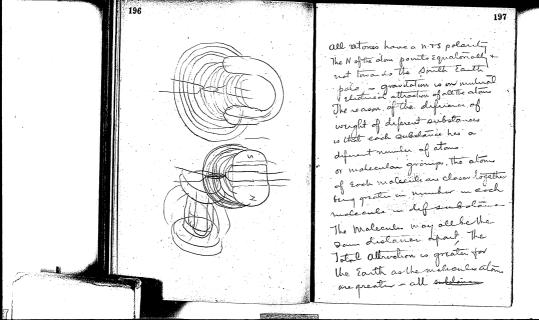




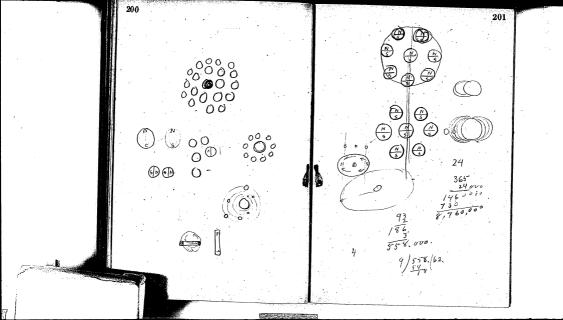


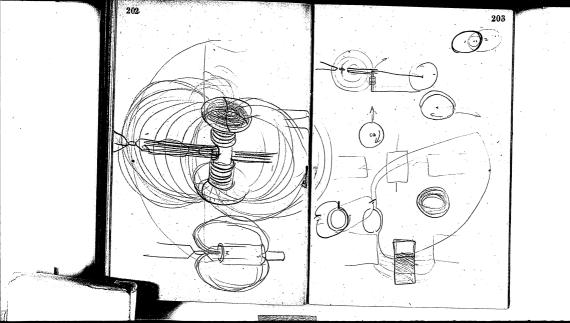


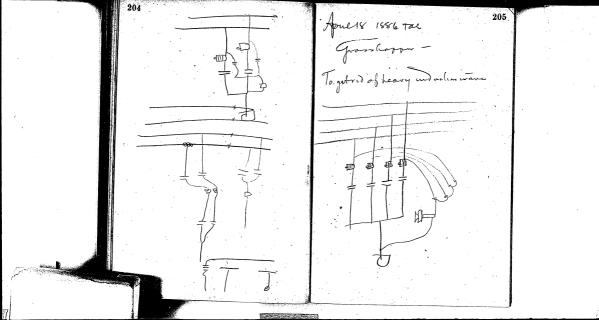




All substance we call Elements are composed of molecules of defert atoms matter is composed primand of one substance the pounds moleculi, Our solar system Cosmical Maleaule different molecule say of From are composed of so many atoms as there are heres with speck Thack atom has a definishmation in the maleaule, Each atom rations to axis with memcavalle





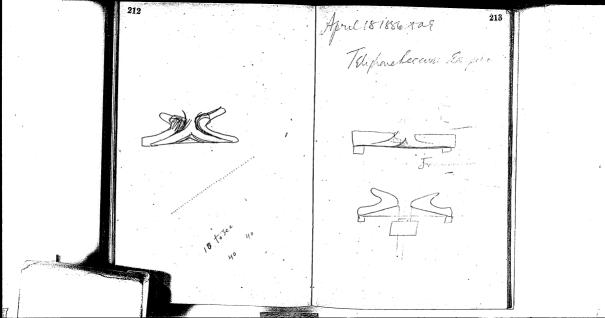


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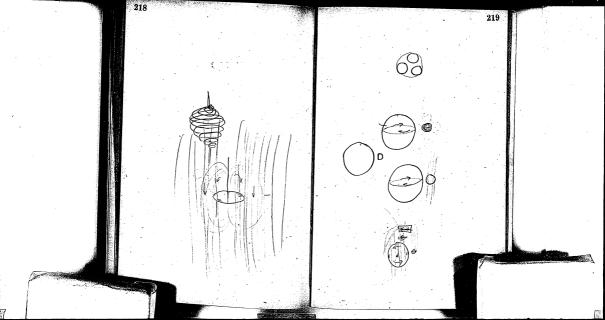
April 18 1886 damental Magnetic Epoul put poles meh anspundi lines free must pass the efthere is my such thing a specific Magnite hadete

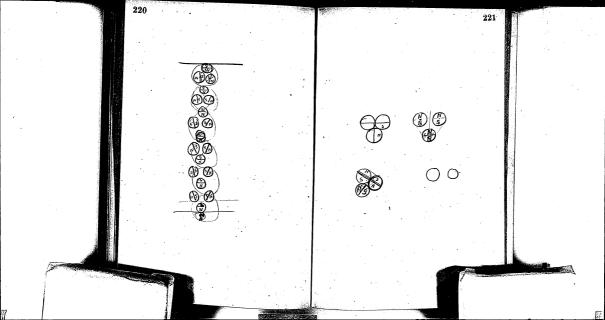
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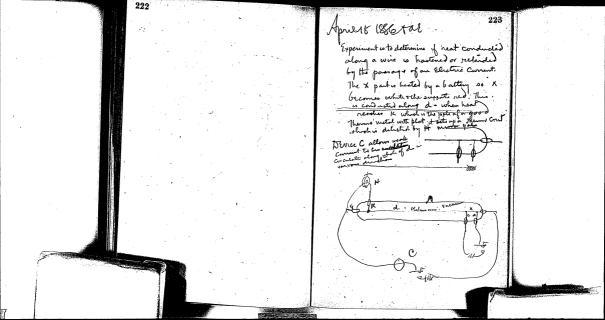
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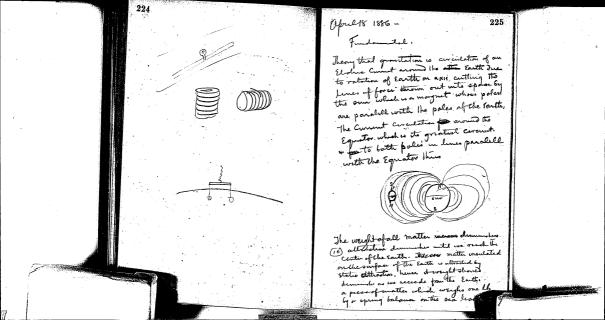


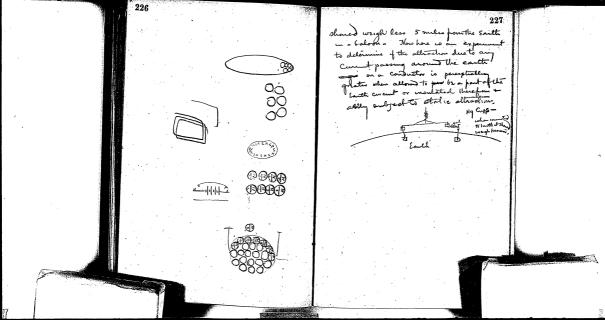
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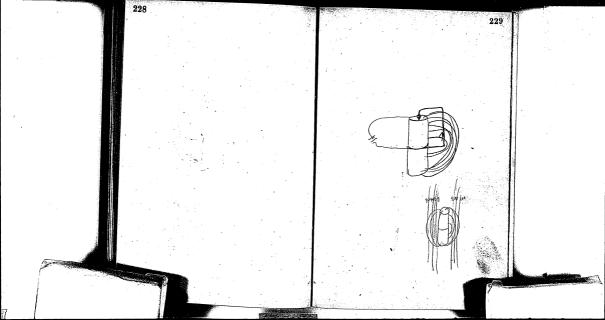


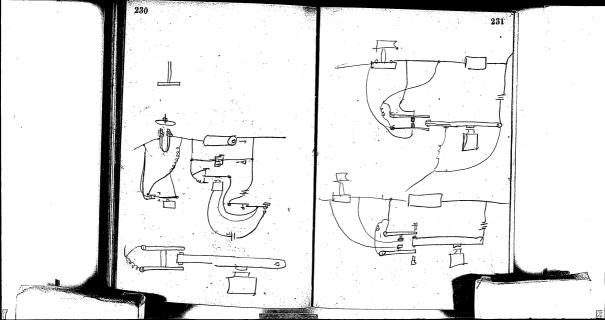


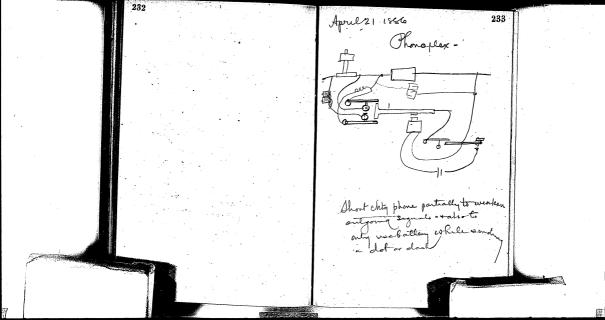


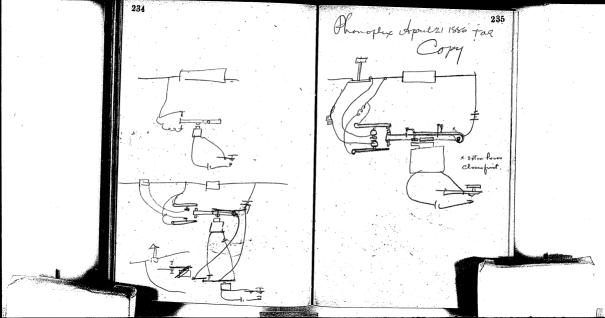


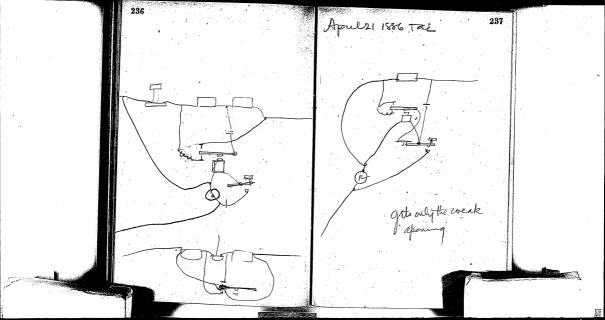


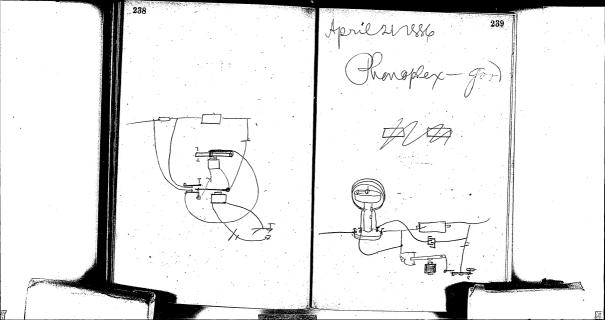


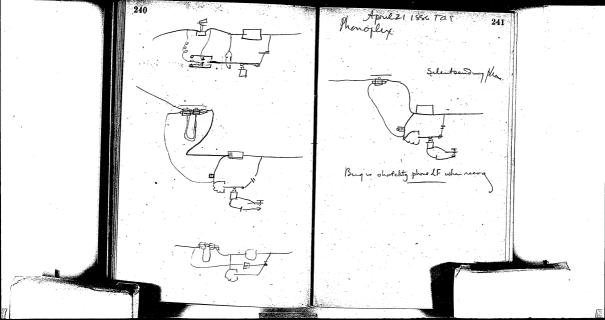


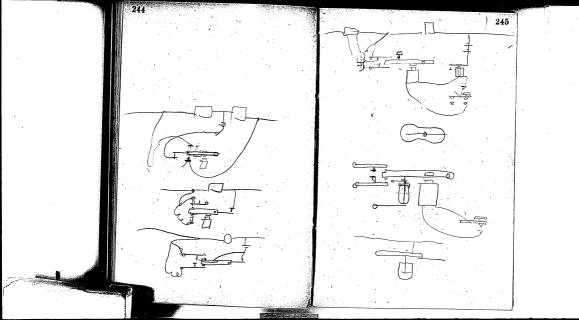


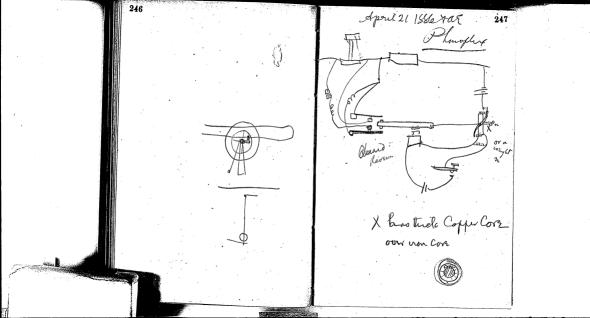


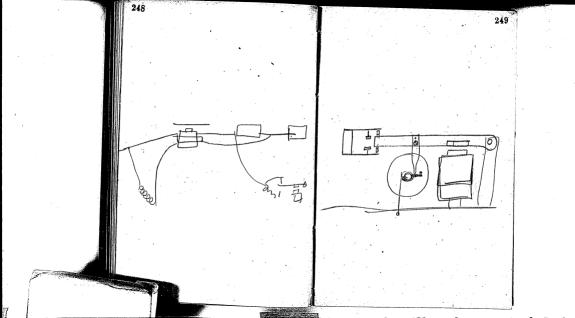




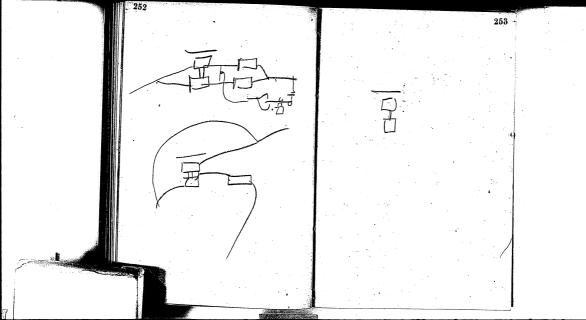


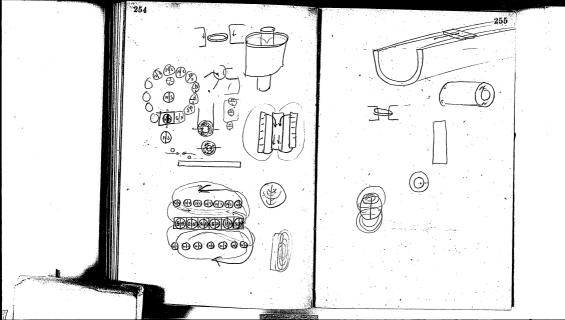


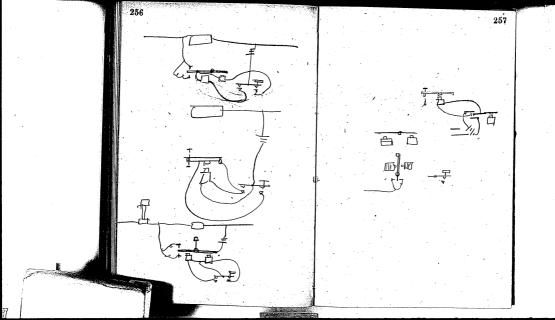


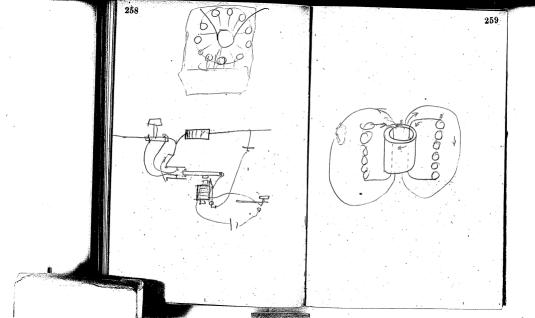


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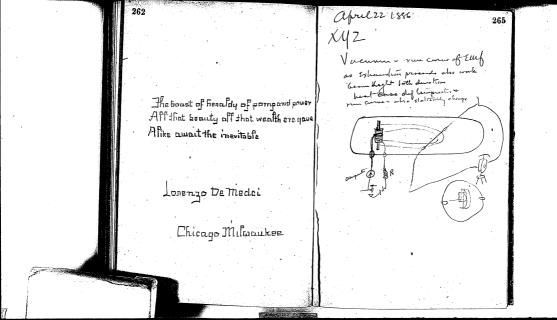


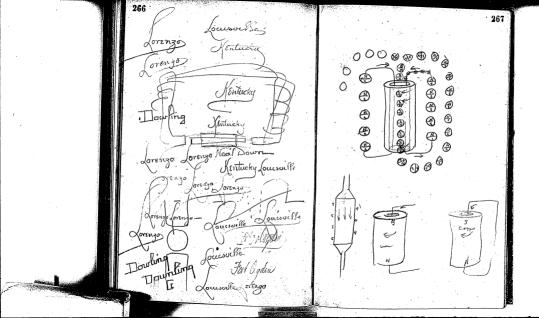


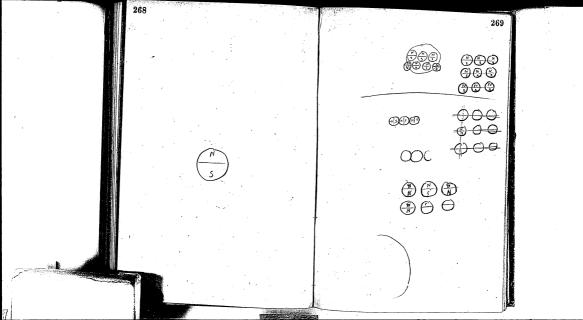


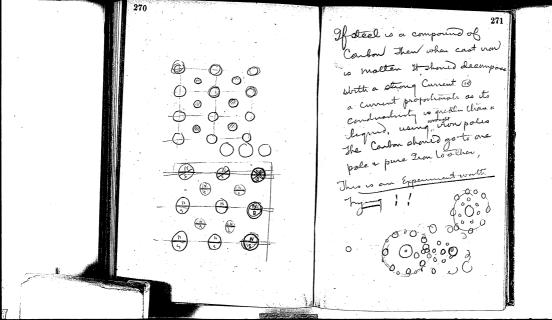
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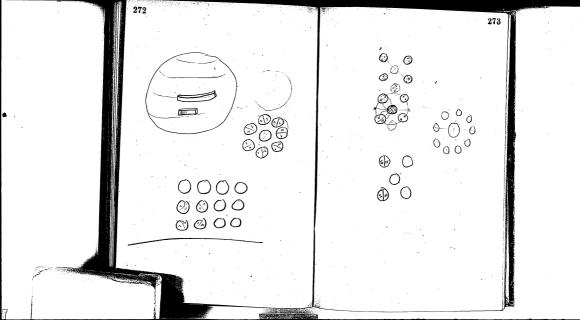
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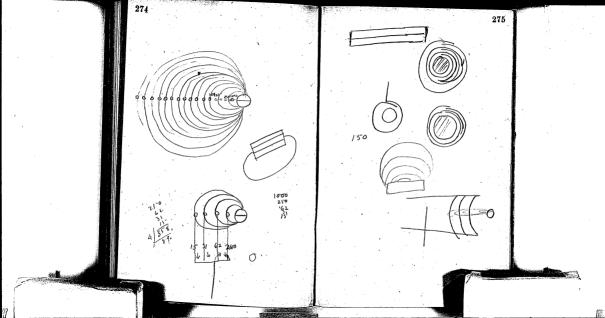












Fort Myers Notebook, N-86-08-17

This notebook covers the periods April 1886 and May 1887. There are also a few undated entries in between. All of the entries are by Edsion. Many of them deal with the rotation of the earth and other planets around the sun and the resulting lines of magnetic force and electricity, which, Edsion theorized, were responsible for gravity. There are also numerous entries relating to spectroscopy and to fundamental experiments on magnetic fields. Other notes and drawings concern the grasshopper telegraph, electric meters, arc lights, electric power conversion of easier indicators, armature design, telephones, and the direct conversion of easier indicators, armature design, telephones, and the direct conversion of the conversion of the direct conversion of the conv

Blank pages not filmed: 128-129, 136-137, 142-143, 286-287.

Missing page numbers: 95-96, 103-122.

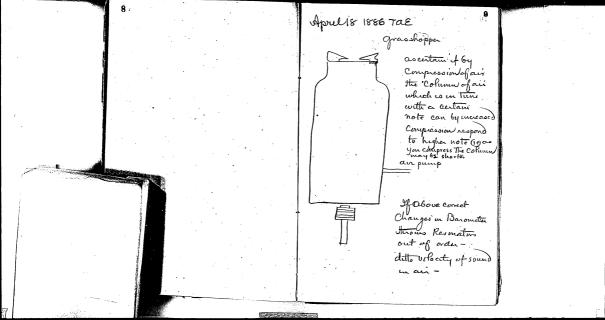
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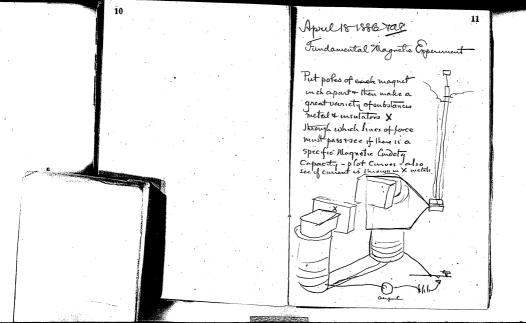
.3

April 18 1886 Tas The rotation of the earth around the sun which is an immense magnet or spherical mass with polarity one your other half S Throwing out lines of force through space) cuts these lines of force so one side of the earth is N the other S but this does not produce a current but the rolation of the earth on its axis causes the circulation of a tremendious current around the earth in direction and paralell with The Equator clear up to the two poles which it creates the mulual altraction of the lines of force of the Earth with its poles and the lines of force of the sun is at the present distance of the south from the sun just ouffrenent to

balance the tendency of the earth to go ma straight line hence its orbit - The lines of force Emmating from the sun are eleptic as produced by the Counter lines of force from 60 dies outside of our planetary system, hence the Earth to always be in an Exact balance between its tenden to proceed in a straight line + the altraction of the sun must more in this eleptic orbit. The notation of the earth or rather oscillation of the earth to produce The seasons must be due to the fact that the sun oscillates

in the same manne To ascertain the strength of Electric polaright of matter on the earth oubject to conduction of an current Jake two was each mile long one east ywest the other north and South, NO 0000. Sink a large porous pot at each end in good damp earth fill with solution of Sulphate Zinc tuse amalginated Elect. Zinc for ground plate -

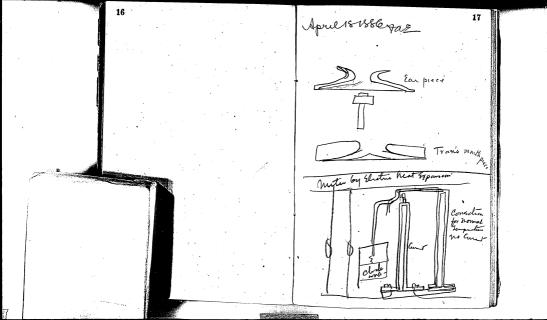


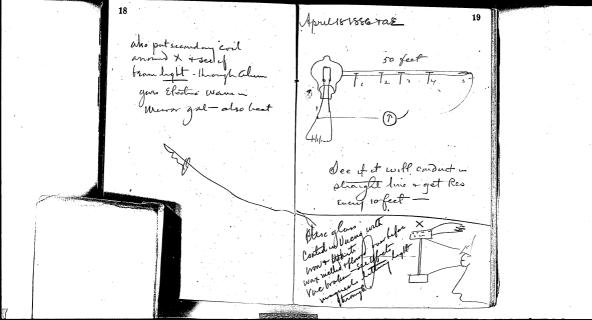


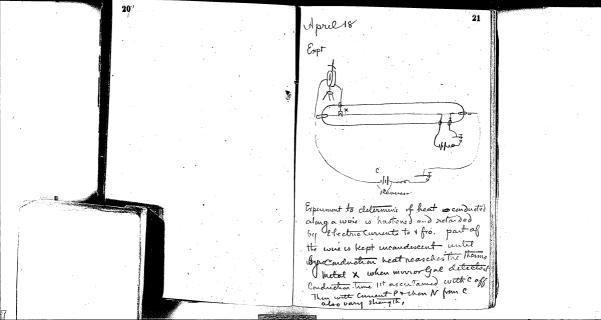
Spectrum - pass tubes fiffed with liquido also unes -paralella at right angles to the beam of light. pass a beam of one kind of light Through a tube lengthwise & move this paralett autright angles to another beam of defeat Colored light & also the spectrum Halso white light - Try these examts also in magnetice field back

17

April 18 1886 Tax Make a jump spark spectrum also flame opectrum of now nicket and other metals & then The same on a powerful field para feller at right angles to the Loff also in a particul Vac tube & thep between poles mvarious ducations of a powerful magnet, also use static from holy to change it in Vacaum,







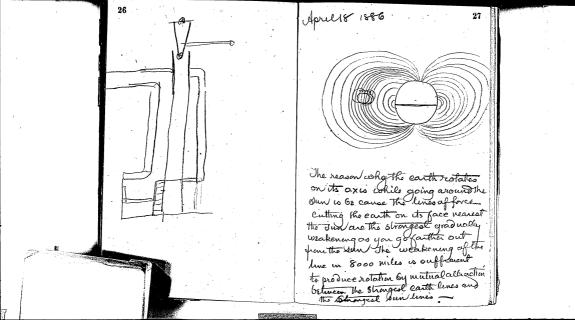
4 take throw of gal cook

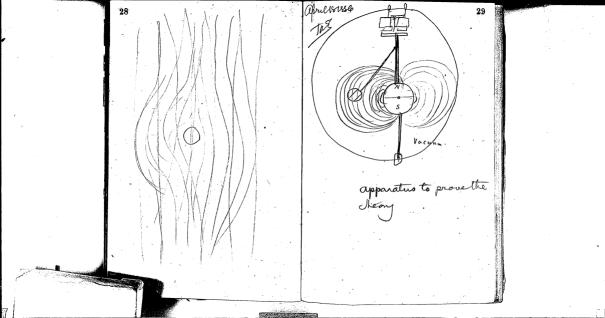
time - afterments put

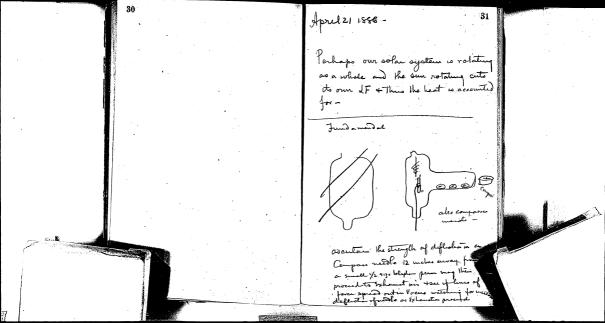
I'm me side Mickel other

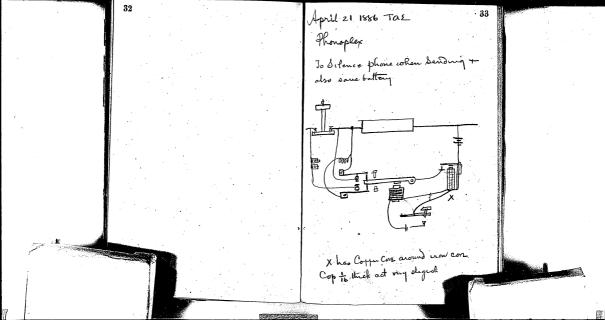
and the sea level showed weigh less on the same 6 alance in a balow 5 miles high. Here is an Experiment to determine if matter where the E has a current form waltracted greater than un state form Copper 20feet Earth . plates 20 feet spent Test - hers Lal -Comel availability of Cabalt Wekel + Iron for heat Effect mogratism

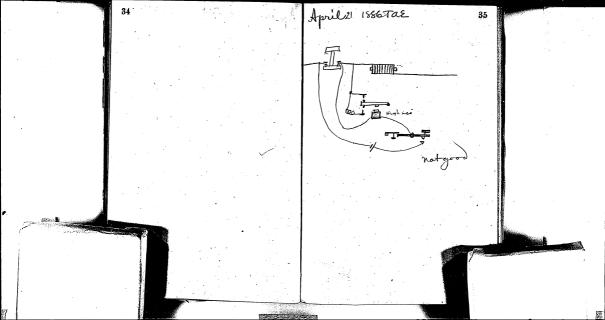
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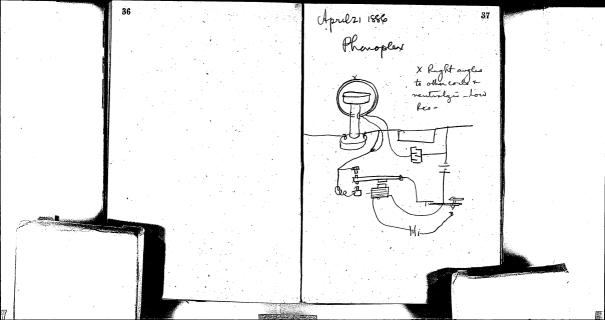


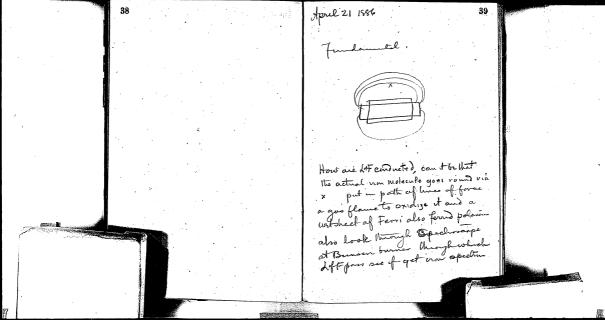






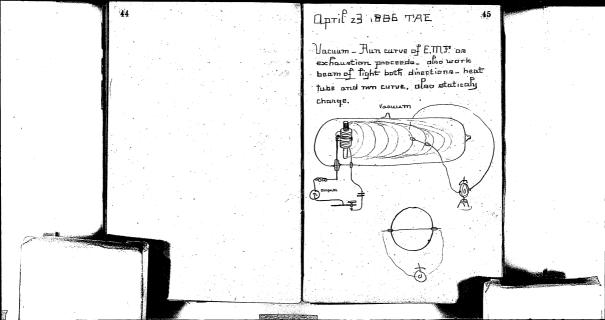






April 21 1886 -XYZ

as Iron gives a jerk when healed Gy Elect at about rio heat and magnetic about same prent. the reverse durchun of com in themes at about some poi (osculaini) Den other metal Lant, This shows that ets molecular atom are closer together than other metals, therefore and how to be separated by heat before they become like We alter Carleton notart poweful altradian + woll metals, Derh to 75 or 100 below Zeno Vp



April 22 1886 -Troprobably that an electric current cannot get the atoms of non magnetic metals completed rotaled so NAS are Exactly apports Evol other, They notate with of while the un atoms notate ea and when a piece of rance salurated the atom are all opport a polarity (e) (DED opport to the nelling point they are only pout segrolate The effect of ham must be to rotale the atoms the opposite direction as at red heat inquetion is lost, while shake conduction which com only loke place by rotation

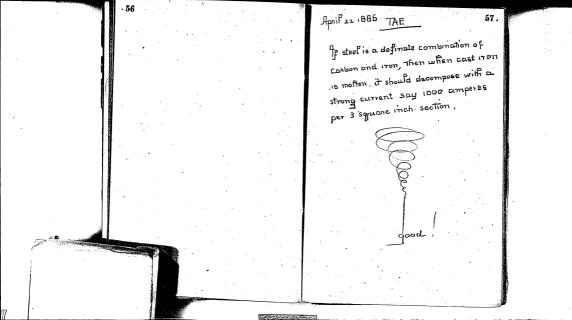
Independent now the question is do too un become a better carducta of & of magnetised My measure it magneticed + demagneticed -If not there as one outside of its magnetion property acts to Elidera Commit lake another metal them won must be de de de a Compound atomic arrangement one system of atoms rotate lasty gover us magnific the adjular atoma dyslam

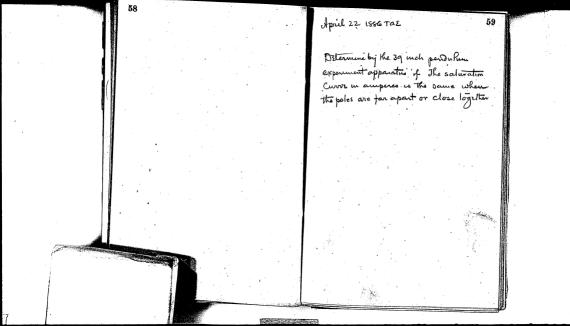
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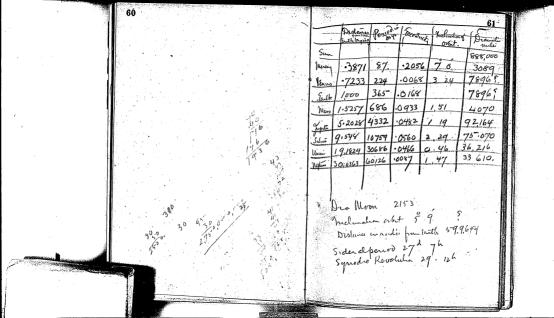
19 fat air is polaried by them 7 Cantobou it Couses at to act metal to E. noticed by Barrett see of it without coment but a without Electricity. Coffee Hence the air seems conduct line of

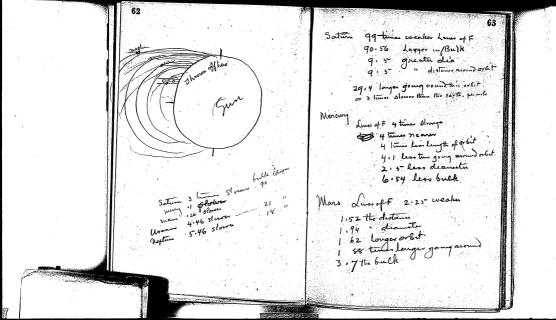
This would seem to show that there was Either a surface polarization of the Copper or the End atoms on Iran were rotated Exactly north Bouth with a given down burnet while with other metals there was and partial volation (e) If notation of Copper atom was Vios part of that of vow atom with given Current The polar pull

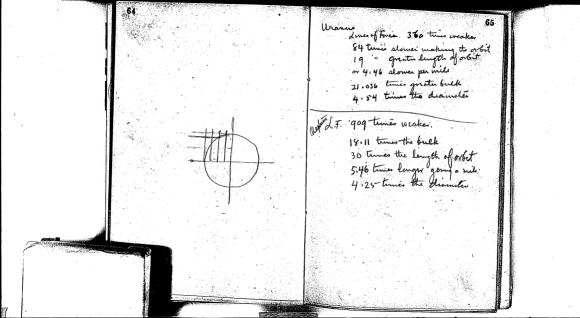
by too - now very probable If conduction is napid occultation of potenis (from the great earth pole line or internal alliaction due to earth cutting lines of force from the sun) Then the amplitude is Ine to the ampun, and riapitality to the number. hence a one ampere cell will give a Current which will give a certain amplifue of axial rotation say 100 in second, 2 cells added together atill same Current thouse resistance but there the minds (e) 200 M or what light or connect or what is probably more connect Keep up the same lamplede in the first ohm The moreused pre the first of by the at



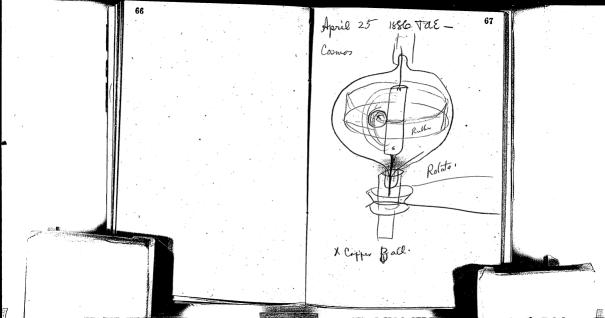


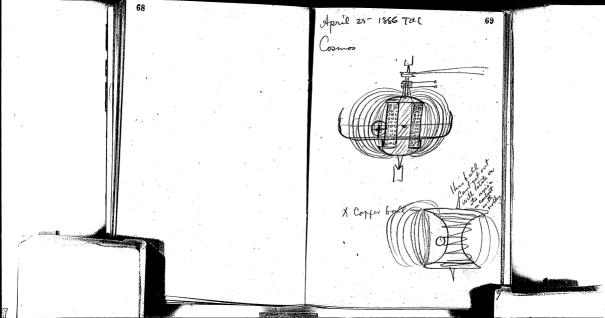


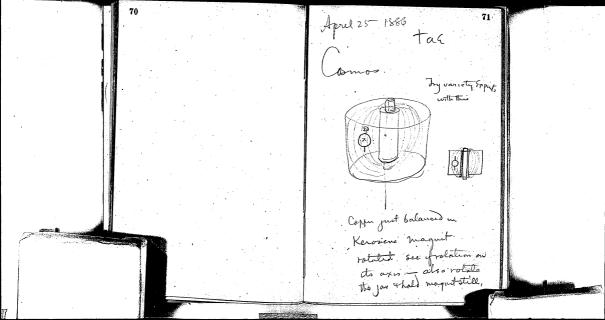




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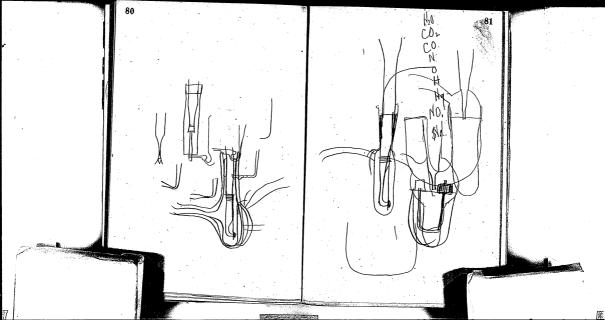


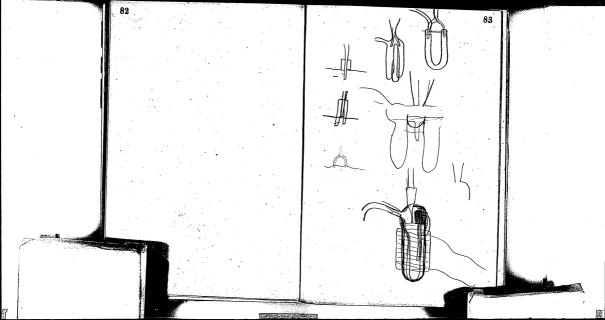
April 25 1886 TaE. Make a lot of hollow balls 1/2 mch dia of gran Lead Tim Zimo sother metals, balanced sxactly by themselves in Bengus also water with salt - Then Throw in an Irm ball of several Coffer see of they arrange thousehis defently - also Cut water with lines of force, poss Coment through with variet balls in liguido - see of any defention Comes

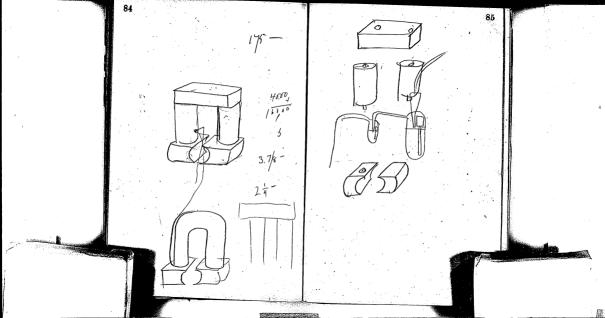
April 25 1866 -. Newdodge are light Rotalitheanc Keep of un Center slopes

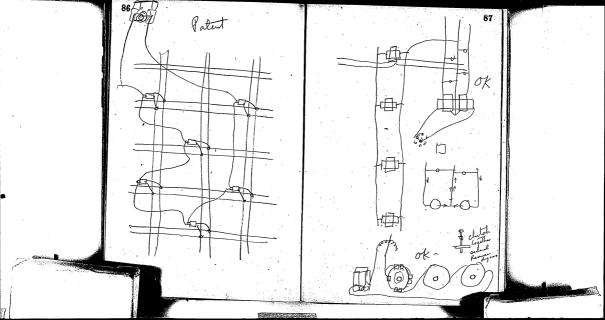
Notes for Lamp Exputs Animonium Nitvite present with breath, il Ramwater 2 molymper litre Mitrie acid Absolu Cocomet chancol See y Chan Soc 649 Latter grows luble of absolute Cyningen + MH at def temps price ntrous oxide decomp by Coppe spiral also non Silver Reduced from Oxidely Hydrogen whamp obsorbine

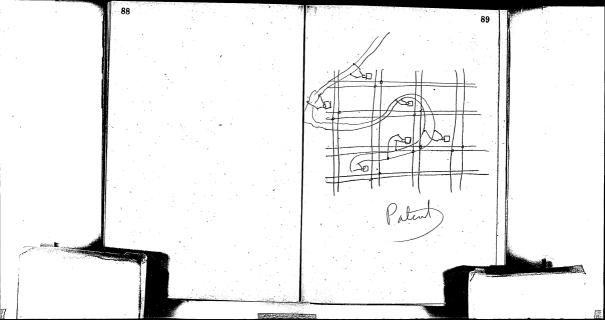
Alcohol Clians glass other chanes Broughede Cartin Cynile potossim, Benzine, Wilvicacid- alkali hot, Heat - This leaves porms rendue charcoal + batts, wince button use alcohology, it, first hat water, then Alcohol,

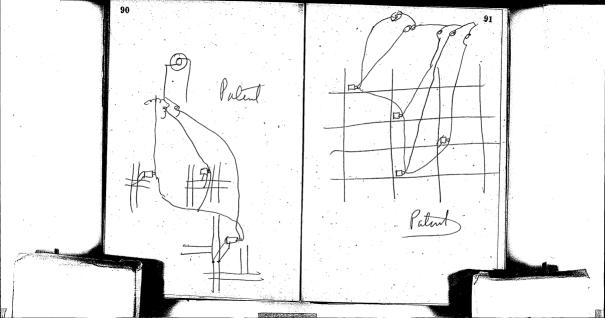


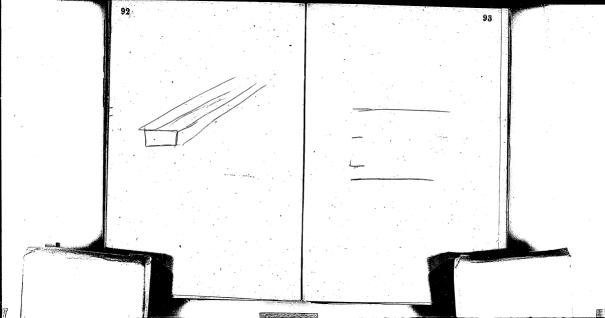


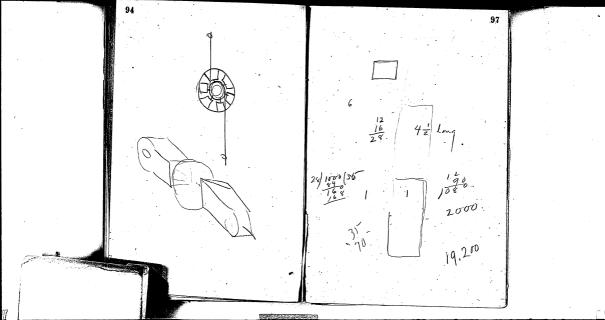


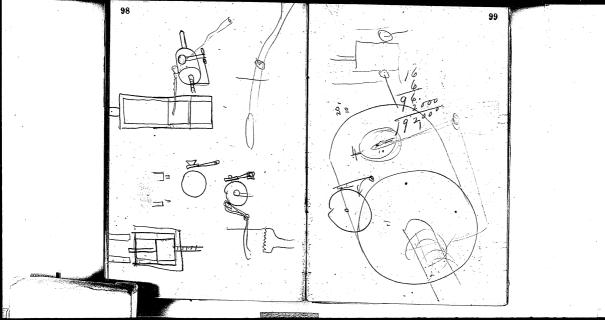


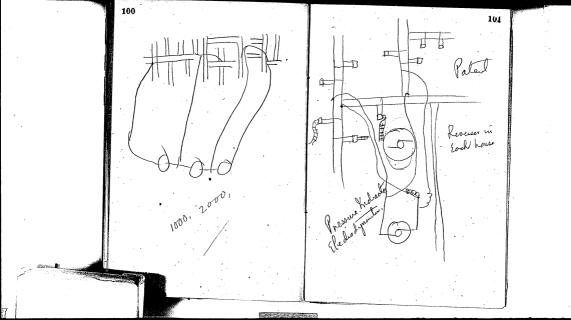


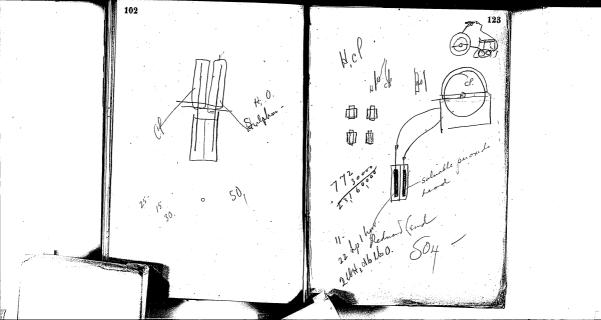


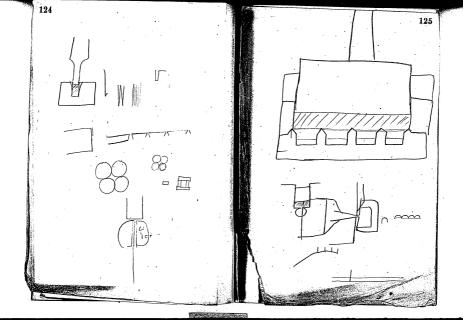


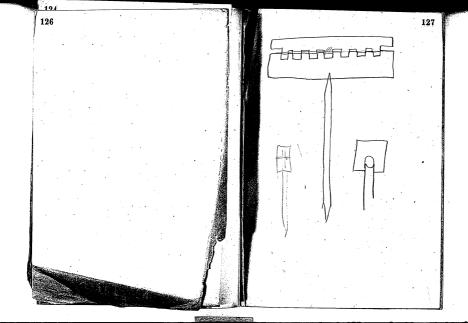


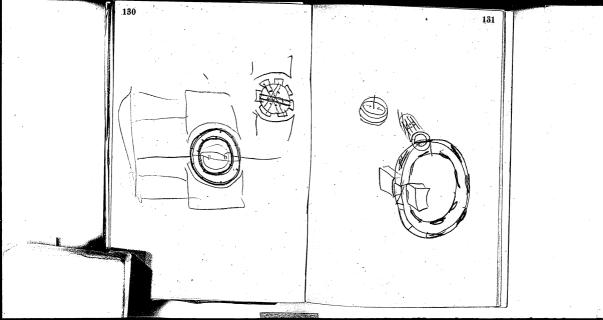


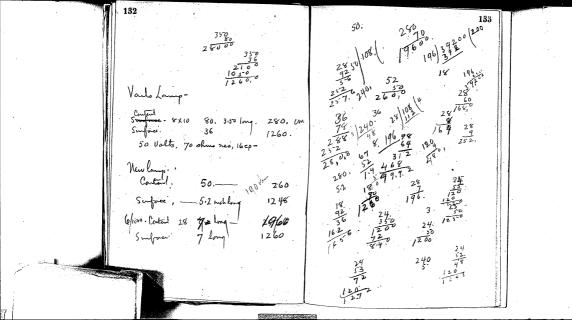


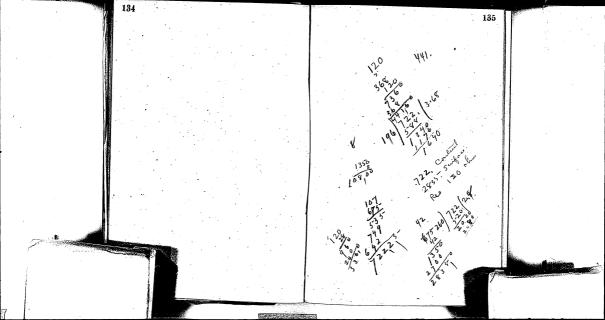


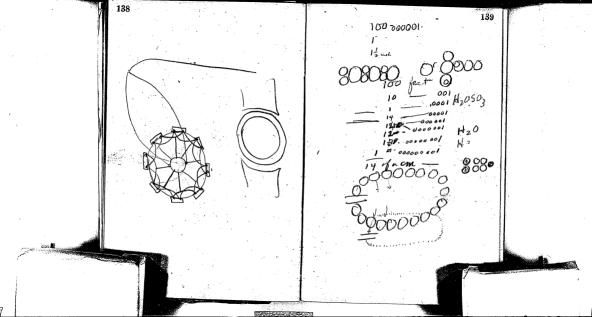


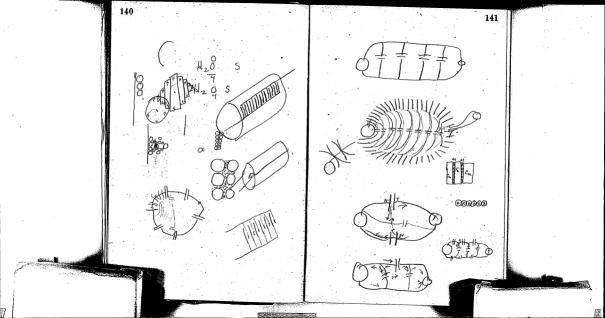


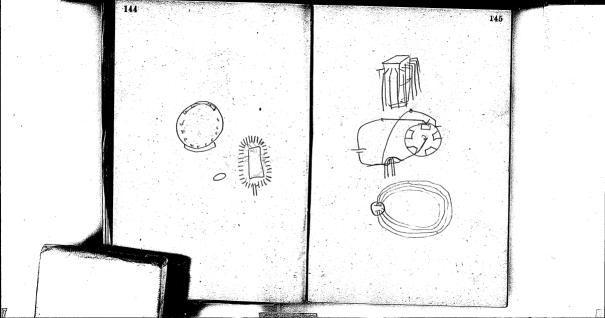


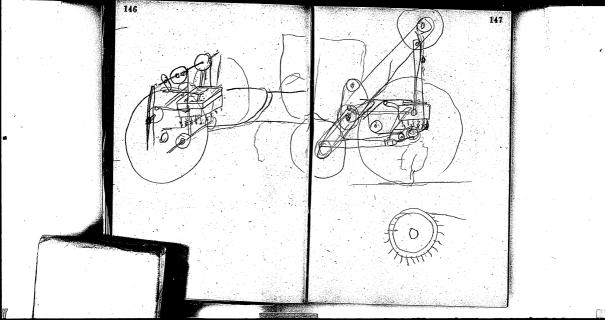


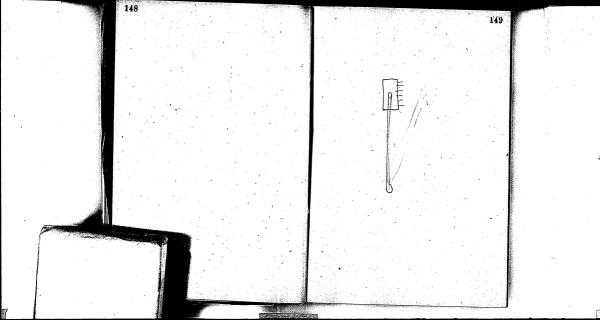


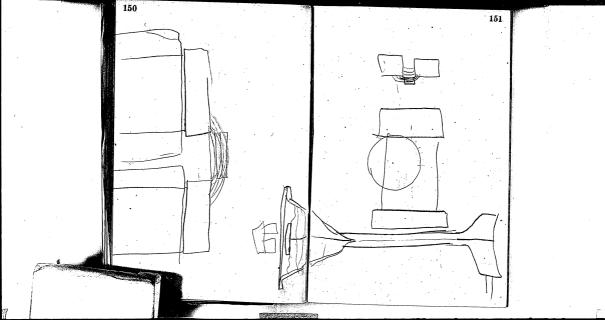


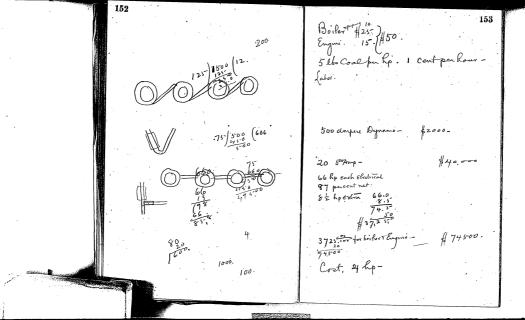


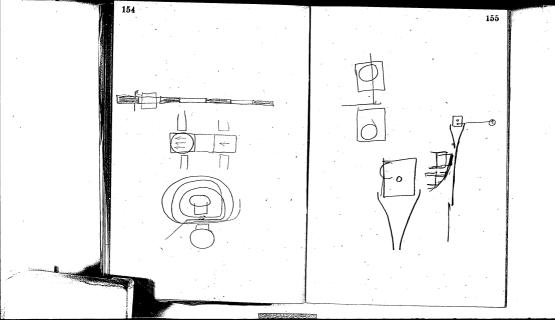


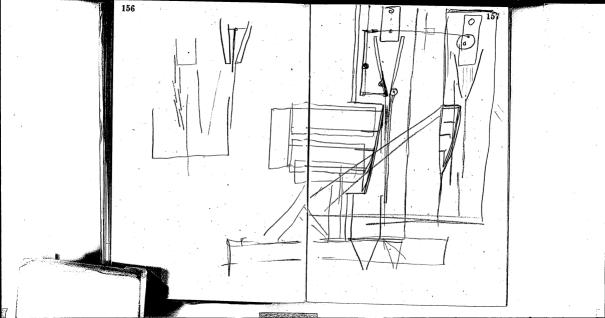


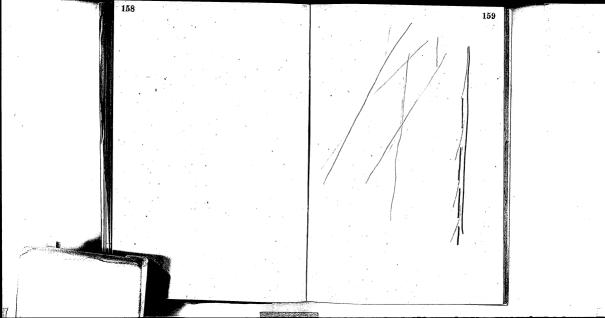


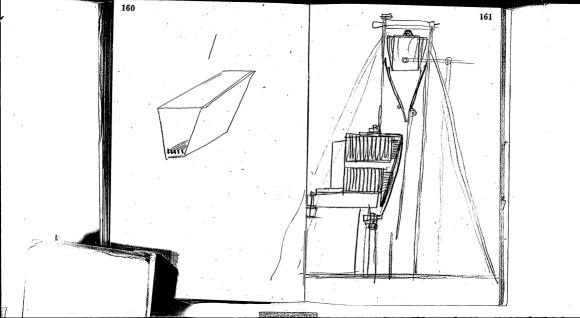


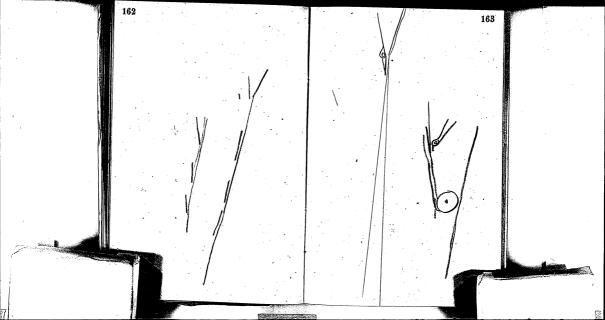


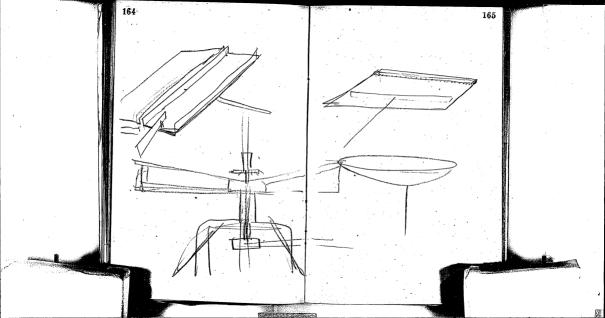


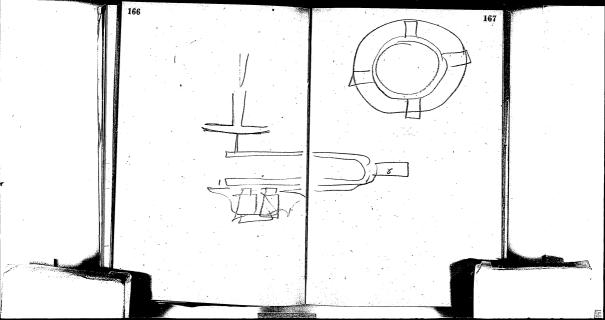


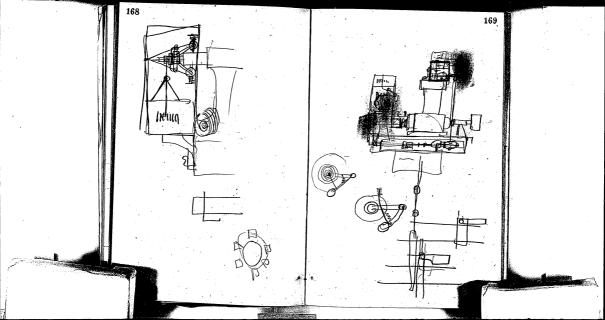


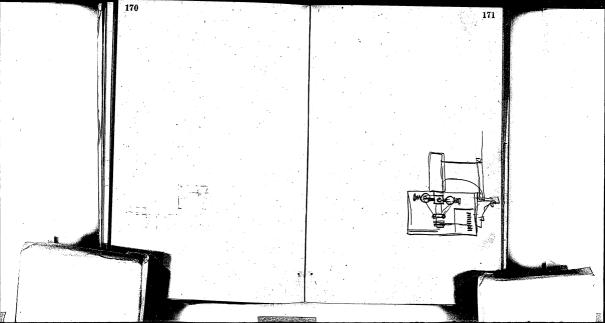


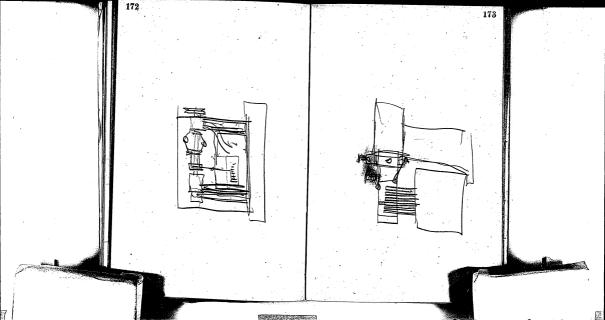


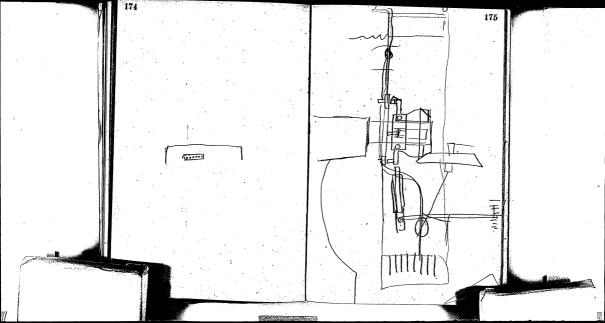


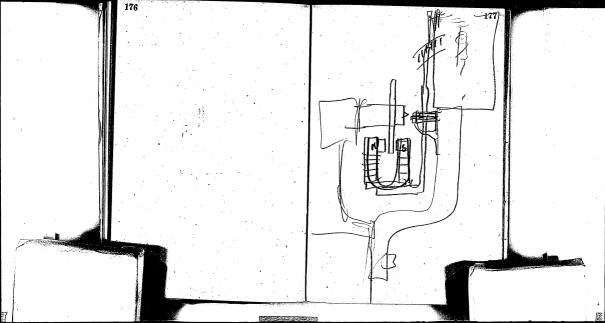


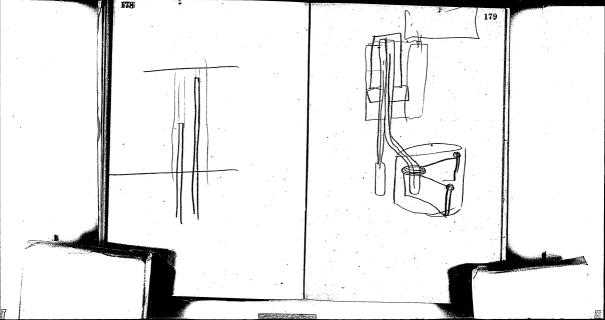


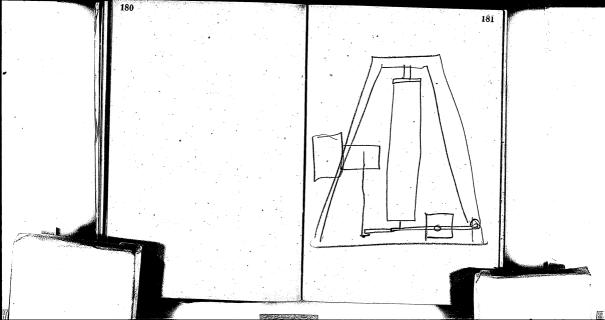


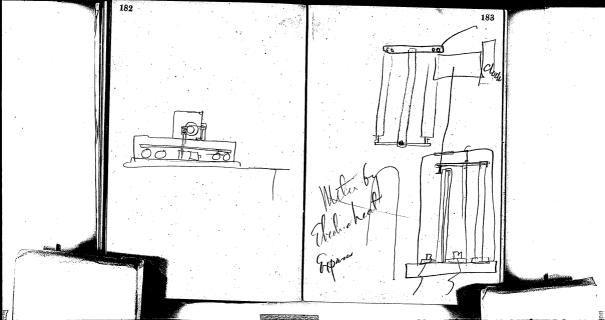






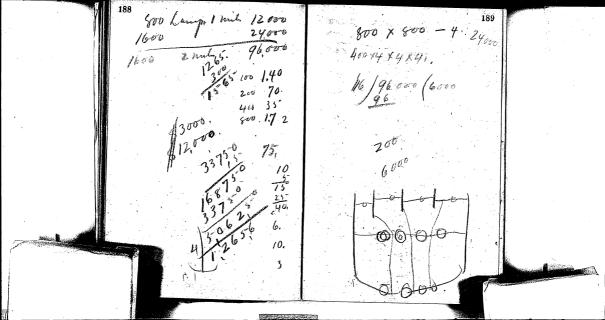


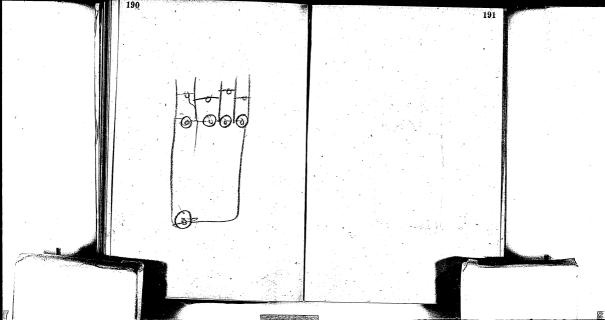




Expunts New Laboratory -Kinny phono water Engrelay on top for Probable onface of chalk effected be light - use diaplingm with mirror Otack + tum Emq - of beam eller whole put - alum Cell stop all I heat a lay light - then try Wellow Vialet or actionic rays on

ght affect chlorum in proportion to fam HCP- with or within Water to about Hel which thous seplonary - perhaps salure cl water free cl with H ok let bran light End on Enlin tuto - Vebrat of from Mirror on Hogion affect Schent subs on Commeliacole with Res Current was or high valt Upon + Odet & tall - Mulliple are





Electric Lamp Experiments 1387 Disolve or rather mix as

Pack, some new stock film take out while hot + pour. It out foliant out of disalony asphalt - then dip - reg asphalt salution the price also Luciad oil - Ent Hamilton also fused oil fooded with Dip preliminaged film prelim to 500 close in melted asphalt at 600 @ 700 fals - my matted sugar

in our new process but pulled of metal coxed. Run some new stocke, through with powdered fusible inclass · securing formunts so then won't float, when justal welts, Humilton put a pine slick in metal like, which Stick has been souled brug up apreately in Stoor of pring

Red on he many in bottom to give off oxygen - John btt Chrysene mp 27, & Hixabrombergin ell welt 249mp 300 C HExactorethans, CzClb-mp 182 C Chlame Haloids may pronice Coneficia Chemical reaction Hoxachlorbergins, Try flow Dulphur to prelimings in with 113 c boils

Lamp Explo -Oliver oil; Sugar alone Boil some fully Carbonged for Summed in reg from in Sulphu and out doors with they Gend - then take out trun Curry - take some Tola asphalt sal tran through whole of my process Marshall

water & Soy sal put com x ox Poize the ourface with block - also put in the with then treat with aspla after they have been twoshed to get wed a object is to remove the on Unough flame so the

Take neg Carbon mounted on unde pait. dep in asphalt Solution 24 hours seal in Lamp + then gradually bru for up in Vac while pung running to combongs asphace suface. Sloppy cooling to pend you to b's Ev

accertain on a reg set up at 80 how will broted, Then. Take another and put at 80 valte & mont kes egnel each time to menose on the one burney A see what cop wil Come to I don't burn! The mly during test with Res-

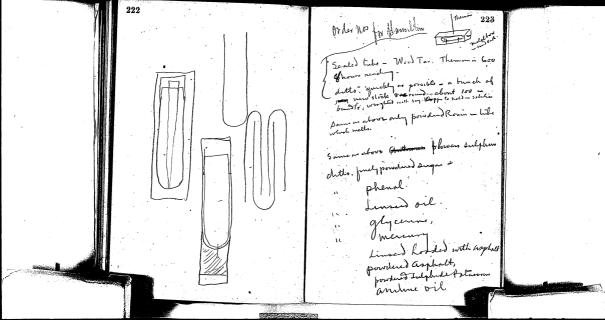
Lump Stph. may 1 1847 tax tred hat plunge occured with also ling Coff molten in the white hot Run Cume also a curve after brung treated with coophact also in Welled Sulphilat.

210 molter asp Linged

Make Comple Estra Grass

so that when so down it will bear a oxide alumina etc, the

216 Il with the & pre 218 Themometer Can be sealed in timbe - the End should hus. Ele metal It is probable that with wood221 tan in scaled tubes and 10. hours run or less that 800 deg : fals Combe touched + dontitul feloy will crook frot the will be a there is little Report drop



acetre acid 2 pet sol of Caustie Polash sue acid -Chlorine water Saturded penhadiande phos 1 pct sue MForce taken Hamilton order nos dipport in things prehim Cound cool on bottom. Then generate Lower to run through his franch - now make represent to 5 = und to get wood varts.

possible of the 25. aftermands be listed for spots the voles made about number Gent wotherwise 2.8 Marshall @ of running peg up as high as it will slaw to run peg up little less than they do on reg The next 10 are to 6e rum sup just as high as it is possible to

The object of the Experiment is t Consolidate the carbon on the o and prevent the that portion of the drop in courte power Due to marcose of resistance of which officers to take place with first 2 or 3 hours at 80 canoles I think that brugging the folument up much higher Those would which with new damp is probably possible + holding the peg there will have . The change Co out of it so when it go photometer from it. get a reading which will.

you will probably fin bitter stee Keep make lamps in pump you get the regues broken I took to get 10 - you will select Re 16. cf lamps for the test with the sharle boo and that aring bothers

with greater diff welly Und of the laws - It is probable that the deposit of the claim should be would be necessary with

an arc if one of the magnets were used + powerfull energized - perhaps ym tetter use my pump for the 9x pum as they have magnets alread The great point is to bring the followed up on the pumps for higher than is now usual in fact the highest attainable limit that is practicable with the use of every device to prevent at \$ 80 caroles each and the drop in candle pome this well give us the value ghim pumps of it may also effect their lefe to 5 Regular Lawys to be

238 The object of the Experim

Select 5 bulbo which have been black They should be of various have Holzer carefully remove the marde part broken Carbon, then taken from a Regular lan for valt of tam the inside part & Can sealthis in

Hockened bulbtell hunto be careful not to beat the bull up where light comes as the would remove some af the flooden the have them rexhaulter to get an out, then Jame vatts get cp - The object of the Expunt is to date what projection of the

drap of Cp is due to hamps about after you are through lesting + the loss on early ple maked of kept in you by looking at the til o Gull of con one can pretty acump delemin the liss of Cp by the blockam

bulbs enough select ave us a square octave Martin Force -\$5 fibe of each Kind 8 round the hat bruder in and these are to be given

howson to be run through the full process after recen then from him they are to be seemed to clay unde wies by deposit each mehes long, after it i fully comboners those afroch order number

room delict 10 for a curve but have accounts Kept of number of filmats that are good that comes out of the Carbony boxes number broken - depost detto pump room an unportent Element to determe Value of a new fibre is the breakage as well as the life - These fulunto are not to be breated in any many

the set way this will chtermine their Value undependent of an breatment, I suppose you could string them on for convener thus get. the 25 in two 60xes, These boxes shared all be mixed splaced in

Hamilton. you are to try the follown Expunute all of what will 4 very careful manipulation otherwise they will not be of Bry much value, The Experiment are the brugung up bamboo foliments gradely & also grade in liquido ste in sealed glass tubes thick Enough to without the pressure which will to from a lampual of Jahr - These glass tubes show about & of who thick -

closed at one and by freamy like a test tube the other En about of open to permit the usulin of the foliamen after to which went receptible so feliment do touch order of glass of so they will not float to lop in the ligited or when a salid on powdued form bearing a ligini - Enough wateral filment intends when the

it is to be laken into g Force & sealed the En drawn out to a point so that when the Expen funded the tip can be brok off to allow of the Escape a the gases slowly - then the tubo is to be crocked at point where it has full de the followerts taken out, solvent of the moleral

used for undance of asphale the timpentine will of Jugar then wat water or other par

a chamber showed by used which will hat. say B to 6 tubes + theated by a gas slows or other means a fah Themate showed the chamber The bulb bring amed the tubes so it will get same heat as they do the Column showed affect entaide the chambe meany stands at 100 de The Themat chand be/

of are not so Experien The chamber should be a be regulated on y nicesty day so that starting in wo take it will go up to booding in also be able to gots . 600 enside of one hour Expense, rapid x slow should thing tube Explo the clamber will pro The glas broken glass from comy on contact with the Eys

The carbons to be used are regular 8x13 now. about 25 chases showed be out in Each Except in the case where D. put regular forms in that 3 canbe put in each from + 3 forms weed work of carbons. You can oget, instruction from we best method of putter the foliands together for places on the like

after washing & drying the felements they are to placed in the little paper boxes with the Number maked in the 60x + also an a slip in the box - Each Hamilton Syperent NOI -Variation 80 6 The take Experients bear Called No! Experient & Each the a Variation

There will be duplicate tubes in Every Experien one of the tube cont other will be graduall run up un lemperal frag the Lemperal of the almospher to 600 while the other lube todas which is a c will be run up to 600

30 pairs of tubes all of which will be Have My Holge order t immedally so as to have I by time your furnace is ready - Hz will obtain for you relating to making 1/1 speck'to me of

Phenofl(1e) Carbolic acid

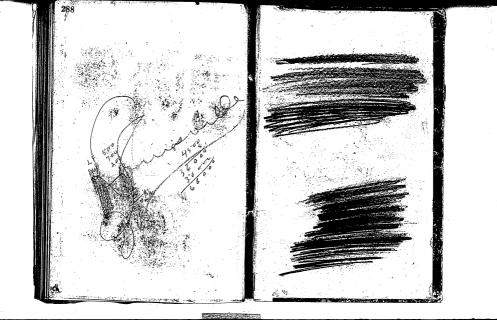
108 - acetic acid glacial. disolved in 50 parts 6 10 10 powdered dophalt 60 NOII aviline oil -NO 12 powdered ougan this No 13 50 part by weight.

pure water Saturated Chlorine water - 3 per cut solution of Canotic Palash in Waler 7 5 pacent solution of Sulphurio acid in Water 19 - Flour of Dulphur 20 powdred for ill metal Jornala 4 parts Bismuth 1 part Codmin 2 parts

These are previously fuse Logather + then powdered I think it is brittle if not you can cut it up it metts about 175 Jahr See that we have a supple of material sufferent to - Frichlords of antimon powdered sulphide of

percent solution 26 - Water 93 parts Courtie Palash 5 parts pyrogallie ward . Chloride of lime fresh 20 parts Water 80 28. water go parts Hydrofluoric acid 10 parts - be very ca in handling the Hydroffen and not to get any on your fugers or body to walker wheen but after allution with water it is not dangerous

285
The good probably give ym other solutions before the End of the Expuring



LAMP FACTORY NOTEBOOKS, 1886

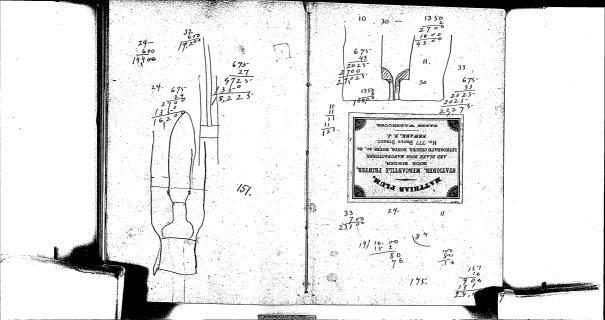
These notebooks cover the period June-December 1886 and contain notes, drawings, and calculations relating to experiments performed at Edison's lamp factory in Harrison, New Jersey. Most of the entire Decision and John F. Ott. One book contains entries by Mina Edison. Another by Edison and John Fy by Ezra T. Gillilland and consists of notes and drawings pertaining usefunces, phonographs, and a railway telegraph and telephone, along with drawings by Out for a village system generator. All of the other books relate to lamp experiments, but one of the books also includes drawings of Edison's phonoplex.

The books appear on the microfilm in the following order:

- N-86-06-28 (1886)
- 2. N-86-07-07 (1886)
- 3. N-86-08-03 (1886)
- 4. N-86-08-24 (1886)
- N-86-08-25 (1886)
- N-86-10-05 (1886)
- 7. N-86-10-08 (1886)

Lamp Factory Notebook, N-86-06-28

This notebook covers the period June-September 1886. All of the entries are by Edison. The name of John F. Ott appears frequently as a witness. The book contained the contained the period of lamp tests have been pasted onto many 227. Loose pages containing the results of lamp tests have been pasted onto many and the book has been used labeled "15." The pages are unumbered, and the book has been used in directions. Approximately 200 pages have been used. Some pages have been torn out of the book.



gune 28 1886 Exports on Lamps yor NOI gosolene washed 2 alcohal +KO - Groken accerding 4 nitricathen renordalsoful 90 m 5- Hat B. Chank +804 Rund H20 5 6 HCP Han alcoRal 7 alcohal twice, not, & Bisulphile Bailomonly Soaked 1/2hr alcohol clean Clamps scarcely any air come off Lalup on punit NOIO alcoholaflerward Broulphile NOII alcohol thembulb heated Continuously by Kerosen Lamp

Econ 152 2 16 cp. 398 200 NO 12 - Lamp washed alcohal then run off with Kerosene Lamp under it gave speaking H, Very strong Ha + faint CO or CO2 -177 on scale ohews very strong vialet luis this I thought was always a CO Line 125 Gring the stronge CO Line but this 177 is 3 hours as I strong as 125 in this lamp hence it must be his to something Else, The Spak of has may plat points 2 lines at 130 +131_ Barker says 177 is H Line 80 Cp - drapin Cp - 84 40.65 - 60m 64 80m 5-2 Gut block Kasted 135 mm

NO10- Bromphide C + first 149 c perhpat 16. Lasled 365 min moderatily 6th 40 Cpower NO 13 no alcahal Healid by Kervani damp - fused KO in bulk -Spectrum Strong mercung - Line 177 Sodium Line, Trace of Red H line. hui-106 - no segns of Co-

gases so conedit get apark Letter heating Lamp. Vac Low -H brilliant, CO moderate Ha Very strong Sohan Moduat, 14 - Phos anhy + K - Lawy nathing Lamp heated Kerosene Lamp -K metted got an out finally Kept low Went about Co. 91 93 96 Sealed Lamp off cold bring Cal - min pierraisly hot both Laup of climat gave planty Hy - after I cooling damp + sefttly heating K. no A Coulant get aspails three Sencer Volle Spon (H- also Ames 133 2 160

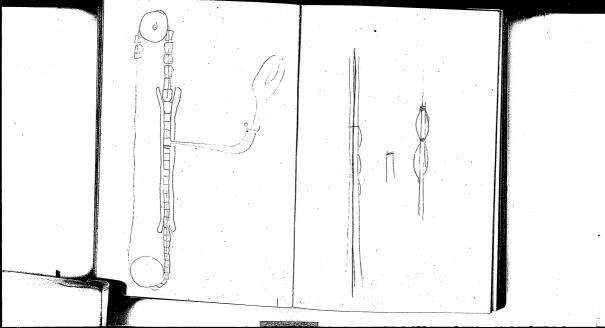
101 115- 96 93 1/4 91 4 86 = No 14 lasled 80 m - 15-1 c · Rither block -NO15 Exhausted with Kerosene Lamp not heated on vac - scaled aff and NO 16 - 500000 of almosphere, lots Merany - also CQ front Hydrogen V fooled with I niodelate + N. mapient ares due to sparke ben

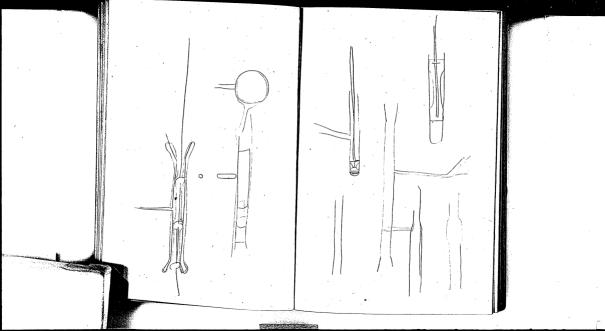
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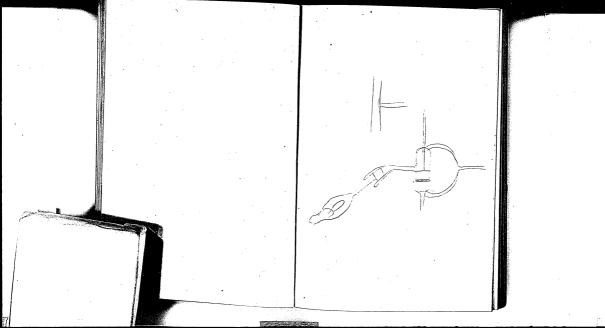
majorataras this Kurcked Vac Down so high conduit get spark the Suit It to get turve Vanather Laurp not herted by Kens or. L. Count, absorbtion K & Charcoal of children allu absort - Lydiogen Thelrogen

Todine w Lamp with Copper whitest deposit g Cole at first godine in bull -168 CPLP o Jo your whileon Tredescent acpositions

122 - mliny 12 - sharp fluted Opec nelrogen CO strong 122 gradually disaffer

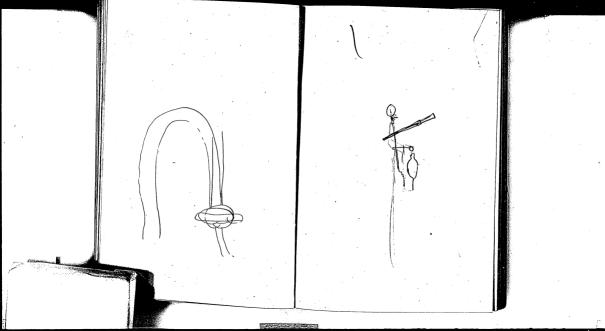


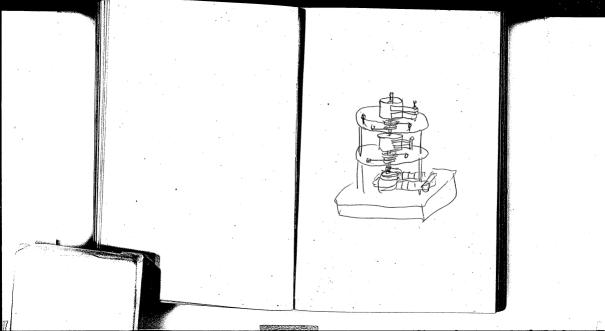


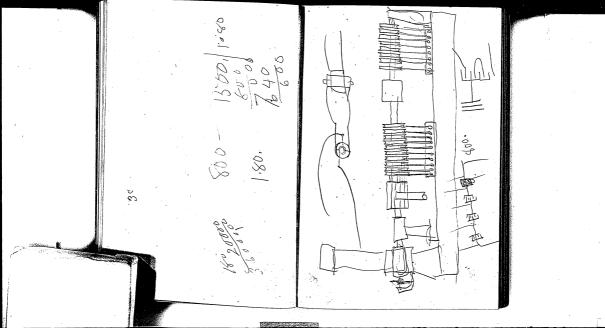


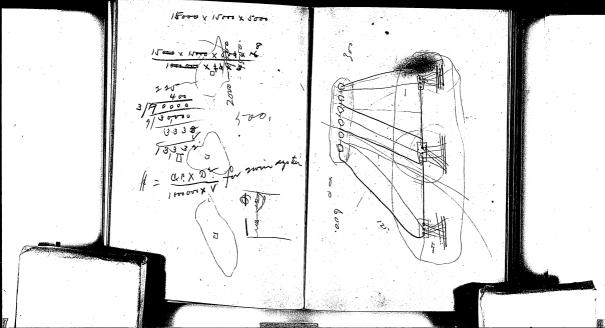
179% H. 1258/ - Carbonic acid CO 109%- CO. a spectrum of a tube taken II of a mashed Hydrogen pump The shark having passed through it. another gauge on the same hump which had sparker pass through it several houses showed no carbonic acid. This shows that carbonic acid or organic matter was either on the magnegion elections on on the glass, These readings were gottune of fine, reading from the left

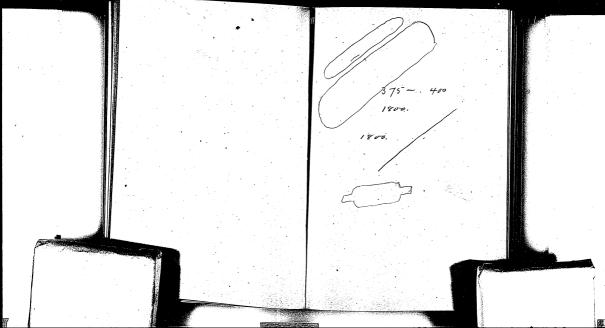
the seale and the scope for Each line. The midst of the line I have called 2/1, of a degree.

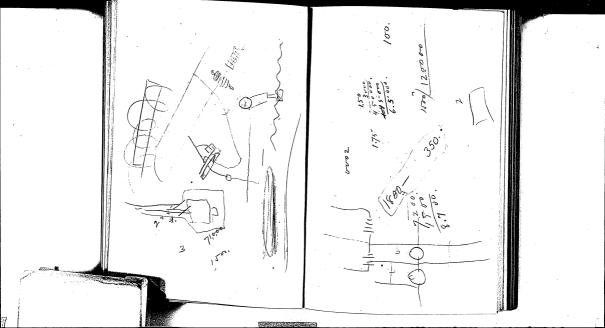


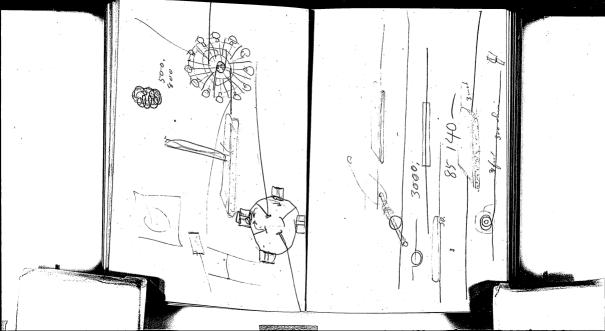


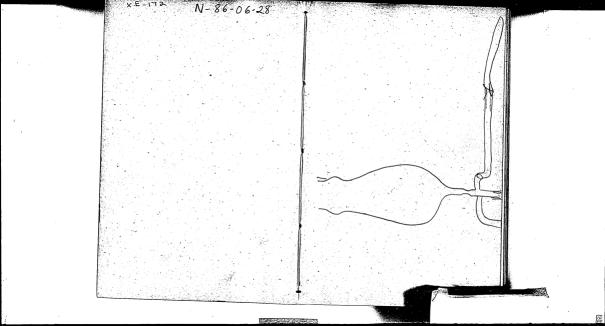




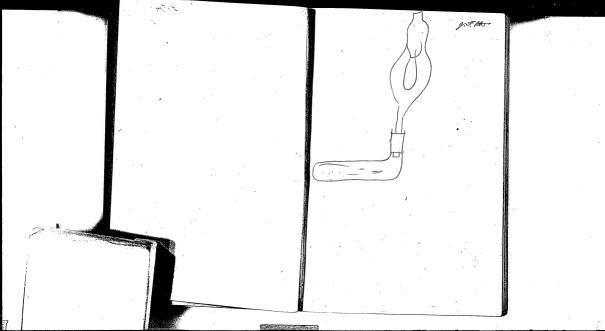


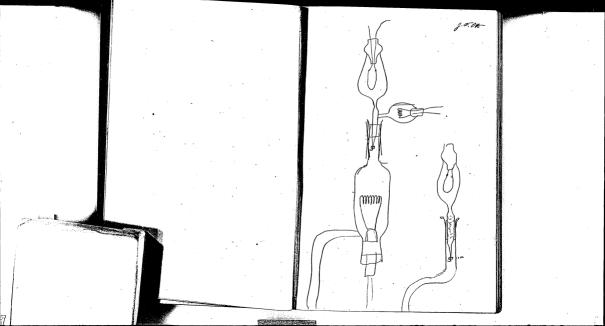






oil - glycerni - pump Not-use parafine, godine to attack Ha & Antening or Bunt to about -Iral sporal metallic spiral was prefd-Kept Har by Current or combustion. material when heated decomposes waln & produces a salid Oxide use Extra um filment in Lamp which is to be healted by Cumit efter vacuum off while lamp hat by Kerosem lan afternal raising same to me point + breaking it & drawing It down by magnet





Aug 10 1886 -Made & lamps with. Lelephone lampblack which is good conductor, an estra platina were proses in lamp + largo inside lamp down where it is sealed - The Lample lays in bulb the lamp being indumed it is heated by Knowne lamp to drived off goon & decompose. Hydrocaba . Welmingto water - after Lamp sended off the Comples is shaken down to Gottom of globe where it Comes in control I with the Extra platura win Lamp is then set up at to to postive of some

nigaline wai outside lang tests show that when whe Commetted to positive life is Longer . I may be that when commented to regulare of has a 6 at Effect on film the reason why lamps last larger on p is there is no effect, I have also made several lamps with carbays authorities Coolpower - This gues. scarcily any gas +dos. duty the laws Juch -The p we to Carban powder gives Gest results, Intic I that the Cackening use

ang 10 1886 708 of Staffing Ohart at clause Extendo clian down below clamps to our oce of the anthracite, -9 am trying putting a Coating of glacial phas · acid on while a glabe · commetting it to the wine that is mean the scal to the · dotential of the of Cole will be the same as the

Univashed Undered owdered anthrock in onde tiles 97ta wie leading into worke ; authorite heated with Knoseni lamp worked in bottom of glace after Then sealed a de tube off fil shing clary of Colo V Clean -

lled Same as 159 fil shing globe + clampick

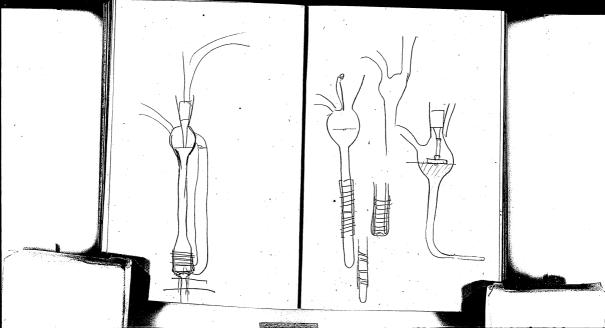
Aug 10 1886 Tol Clean filshing globe + Clay 1.

Same as 159 Except there is 3 time as hunch authrough, so twill wearly touch were as they come with globe dean water put in - put on drier + Dried hot, then allowed lamps of globe clian

powdued glocial phosphy acid alittle water in globe tomake and veting surface Extra wine with vacuum down at seal - put on Drie sheated Kooled + Then put on pump heater with Knosene - Curren globe till Whitesh.

Mellyramm Napthalin -Exhausted regular revused Comment - Clamps clean globe clian fil shing run fil up higher than

Same ~ . 165 - 1 2016 appearances same -



2 milligramma Vinjthalmi un globe - Let it burn attabant 16 020 candles as it seems to deposit best at lower uncards an on brugany it up high the g Cole was veryment whitered there neaction taking place fil very shory by deposit both Clamps although I didne

Dried andrier = milligramis terchloride Carlon got vac him quelely run to about 16 cp Them let it stay deposit good at The Cp lot gus comes of 9 still let it bun not withstand the great are and good ant Unle t Chloring as t didn't dirty tube but very with side wear clamps high blue come in Chan African Sking - Jerse

Aug 11 1886 -169- pried_ gotto 1 milligram terchloride Carbon - worked neg 12/69 not reversed - 6lug in V- amp- Res- Fill- lamp Q.D. grobe took it off por - \$5 - 141 - 3539 - 9.32 - 149 " 16 Inter grady globe clean file of strong ref 40 - 90-053= 665=936 but can't see that Where is 14 Po - 12 - 50 - 40 - 56 any deposit of any Muniter lasted 960 Congresa clamps clie not very block for life Clemps clean fet dead block

Silicon 1/2 thursleful heated by Kno - Exha were was to count to it - one clomp moderally chan other duty fil shing

Dried -/ Milligrame authracene_ didn't heat with Knosen -Clamps clean feliment very shing poly deposit olights globe gillow tent all over Owhite Valatityed authoracin a neck V-any- Res- Itthe W.B. W. O.C. set 50 210 570 805 980 1240 1480 80-72-58-40-84-33-31-90 Minutes tacked 1505 globe only yellow flower clean.

Aug 13 1886 Tried several lamps having fit filment Coalet with aluming Wagnesia-Colem, Berylum Ziremia from their chelorides of acitales depping fibre in Solution heat of Kernam chung to dien then Journey purkey thing flame - The Coating hards fremutupto about 20 to 25-cp then it seems to gump off although some filments her langwell -The contraction afthe oxede while the followent do cont coule as betoughtele causes the

Aug 13 1856 Martin has deput a dozen Carba in Coal ton in Bengal & Ligno fuely pawdued oxide a Alumna, Magnisca, put them in morel a they ant arun through the Carlingung pracies, the Theory time that the Far will a arlange of look the oxide together - The Coaling is very four though not Complete = I am getting realy a lot at full about 1/2 Combayed (10) brought up to Good deg fale

Ligraria et e H the infusible oxdes + then run through to final Can the Thrink ye afthe Carbon w then be about Equal to the tan Carlan - also Faringe to dep same Bambao feling inter of inframble oxide Habanya a regular evary. fully Carthing of formut inta - Licarce & ather Carling alle top walm Legulohape sooking

Lug 13 1886 Tac When partially Combange files is probably the best period Lewhon July Carlinge As acto fill up theo paces + breaks due to the initial Carbanation af the Bamboo,

2 Milligrami Chl Carban it all disappeared before heated homp - run it to red white gradely + allowed it bum 10 172 for several winter the v-amp- Res- Fth- lamps rather high -reverse 113 - 73 -165- 362 9 9.11 -146 . globe clean clamp 147 -100 -184 -7167 - 4.60 - 368 , 50 Oclean ful not as shi as it comes from Canto Munilio lastrat 220 Rather dark for life - clamp perfully clean fil dead block

7

2 milligrams of Carbon in glass tube at about 16 Cp good shere afterwards were away so that the fale N- amp- Ris. Fills - lamp C.P. W.P. Q.C.D 100 - 1/3 - 139 - 3230 - 1021-165 .. 16 132 - 1.08 - 127 - 6061 - 5:44 - 435 .. 80 glabe not very dark much less film aboyed it mysellowich coals Minules lasted 1631

Luke with 2 millipyann Terchl Coulan brought tup quek. fil no brighten no blue or - amp Res - Fills - lamps . - 18 -133 - 55/5 - 9.25 - 198 " 16 took I off before really 135-1411 -121 - 6686 - 4.97-098. 80 Signet it off refuse Hg had chow a get in no blue on clamp fil no wine shong than regular globe chan

Dried several hours 5 millegram, Che Carbon in tude got vac & then gree rum up to go cloo co their put it back to 25 cp slet it run - fil departed on v- auf- Ro - Fill - Rot C.P. C.P. Mobe clear Except at neck yellow white depaid clamps not cleaned no halo or olue unglobe took & off before Municipalist 290 globe yellown ablock Clamp pretty dean fil block white most neck globe.

Aug 14 1886 Put two regular Carban un platina Clamps, then soak Coal tou several truis, dry slightly after Each dip Then gave them to goet acal also another Confor a plating Clamps dippelseneral time in lequorice water you to Jos I propose to slowly to at lamp from low heat an direct to about 600 fahr put an fu Abruguepo Cowly on a Carolingi - The Orfthe Le fronce well probably Exily the what a felo Carlon frot Suffermely

176 - Dried with heat you fil u plat clamps sooked 10176 V- amp- Res - Tells - famps C. P. H.P. Q.C. P. Cond immediately.

John in phas Cupgot soled take wran quickly I to 100 cp not bet air came off no halo no blue this may be due to duty pump the Galen dester it ball must partsonething in to, catch of before it get to ! 150 - 1.18 - 138 - 7520 - 4.39 - 367 . Po Think alway mattel Copper cop aly a drie til nat shing seems to be Muniles tailed 80 actita plamps globe yellow Clamps derly on vay black looket aroung neck globe

178 Dried on dries with heat Sooked in Tar- goods-Clamps don't had-

godine u Drier -Jodne u place Cop - coles oplandthe gring ledet der bad but typt vac run it up prickly) Very Thing - slight halo often running little while Clamps dut v-auf- Res- Fills - lawfo

godine in drier -Jodne in plan Cop - pump dirty they fil rather sking de dut got goo I vai - globel clian clamp untached no blue a le alo 9/14/86 10/80 lamp 0.0 2 v. amp. Ro - 7th lamp 0.0 2 107- 17- 139-3628- 9:09-145 .. 16 140 -1.12 - 125 - 6946 - 4.75 -380 .. 80 Thunk lasted 90. globe gellow white.

Dried for 12 hour and Tree without heat - Forders in put on pump with U shaped the with coffee what cleaned by 804 - new phas andy rie. De 10@15- mill gram Godine on top of phos huty - halo got grick vac - no halo r- amp ho- Fill - Campo C.P. 106-19-134-3716- 8.87 I no blue, brot it up very high clamps get clam when heat in ful out Vbyresidual Indivi Minule tasked 180 fit very shing - was took of clear hance wat very good Yellowsh globe fil desad alook Clamp dirty white defort wen Vac - globe clien Champs then deep yellow

with only plios anhy & very little and came of Cloup my little of and come off-the silver war all valablyand on week of 9/15/86 NO 182 lamp Box. W. auf P. 200.0

ī

Longlube with about & milyn Chl Carbon - got vac Then brought it up rather grankly toget Vac before much chellen Volallyi) then brot to white he at theoled chee with Herosem good deposit - a very white Volutile orbotance apparault 2 of them w Vac. Clamps duty had Copper shot in U lute but didn't seem at Chlorini - good vac flohing although not

Plalua Center price -Color plobe den great head gas come of before beating - Convecting platina to Negative side down stains -

lummum sheet with frouved one se de clauri to Negative Jele down Blue in globe which some cheappeared, Blue on clamp, which inexaud in size and Aniely until a deep blue sphere found, about 1/2 along clamp Minules Pasted 10- and

fil of bamboosoaked Tar — clamps clam fil not shong glob cha V-amp- Res - Filter - Hil M. R. Q O.P. Minute Parlie 50.

Dried grally - 1.500 of Hamilton not well work great deal on when clamp got hat - some nideal Valalyad-probably Cu melted green color ship fil dettle bound V-amp- Res- Filts - lamps C.P. H. R. Gep 80-18 Caston lorse in clamp. Minute lacked 225

small glass tube of Palassim beated offer vac ablamid, fil shing Cloups clean globe quite yellow on one side -Vruetal on neck glass -V- amp- Res- Ills- lamp C.P. H.R. C.P. 112- 75-149-3712-8,90-142.16 Mundis lasted 45. accountably exacted + opportinged Iblock -

qual proce of Palarem got unc' - heated only quely not Evanyh to Valadiza et -cla-p Clean- globe chan filsking 9/17/56 v-amp- Ri- Filts - amp con @ C. R. 110 - .75- 149- 8650 - 9.04-145 .. 16 149 - 1.11 - 135- 7317 - 4.51-361 80 Blue on clamp - Recetance our up. arid in 5 much.

undried - J. J. C. C. Small tube Patassom not blotted - had pro6-6Cy par N- amp - Res - Fills - lamps C.D. G. C.D Burgo - - got 1/2 Vac 102- 110- 93 - 4964 - 6.65-106 " Say 22 mohes Meren, 128-1.46-89- 8268 - 3.87-300 .. 80 Scaled off Then health potosse with Kersen white cloud of monoxide probably then formed -Mumber lasted 40 "heated it strongly their brought up lamp. siels it want up in Cp greatly Make whitesh + clean on the count for til beatful shine it was ligarital on broke in certain of at ish fil most sking have clear up to bunch-Clair clark globe End of the clamp perce block oughtly opendet

25 milligram Naphalm un side tube - notice it dyord at yellow while by natural Evaporation Napthali without heat Elegant deposit A come off slow - if too youde maker yellow depos 4 globe domewhat you O clarp not clean

& Wands with rwithout receptione amag, acrasi lamp tu series around magnet to effort the carrying able halo no Effect perceptiable got goodvac revered Cumment, then broke vac treexhausted and time very small amount gas come aff revenil Current got both clamps red hat then broke vacuum oughly say to 27 uncher + resxhausted, no au at all Come off this time account strong 1/2 hour to get high vac without heating seded of

Washed with nitric acid delute remed then water put in with few dropo Silver plating Salution should clamps Then well rinsel put in drier - got vac aircred. " curet worked high remelled change heated bires with Knosene Lamp - The broke Vac to pay 27 unches reexhausted the lamp up kgot no air Then let it run for 1/2 hour Down all went off clamp to globe - fil shing

got vac - recound aget well Oclamps red hat got high Voc Then broke vac to 27 under, reexhausted & lft I run 1/2 how often got sal like heated rouftand stem 60 minute afer Sealing - clarges clean glade clean fil showy -

Same as 194 -

Same as 193 - Except Vac brake & little tube of Chlaston put in - fel their brot to 16 Cp and allowed to burn until Chl all gine Affre come on running high - little whitening/x undicena un nick champs Clean - fil not deposited n or at hast nat war Theny Than from furna

Except on breaking Vac Done phas anhy enet or viscous got - 60c6 pet some tibe Chl Carbon in growhed as with 796 great amount whitening mick clarified clar ofter partylocal clar of not deposited in infact one side slightly bround

got Vac brake it Little plan fil not very shing -

Put on 3 mounts pump with side U tube containing thos put Chl Chromim ter -I red hot then let in Chloren scaled off - clamps clian fishing a lobe dear -

undried 1.5.04 Vata regrea pump with Stoperak Utube Hentrobloride Phosphoris, got vac on all thurshut off Parlachlande the take bally blocken heated both cloups red hat & gotther chan then turned cook & let in perila chlande this broke vac to say 28 2 meline c get one again grack & in a The parta attacks & bleckens

globe when first stated freeze perhaps little. Somet clean fil shing globe no deposit

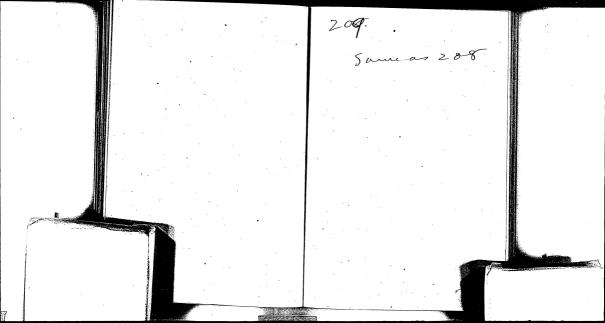
202 undred J.J.M. Strongly agented Camplic v- amp- Res - Fills - lamp C.D. Potosh = cloups clean 104- 172-145-8820 - 9.94-159 " 16 blue hangs persistently 136 -1.06 -129 -6400 - 5:15-412 480 Cant get off - Vac not 102 - 72-142-3250 -10,15-162, 16 131 - 1.03 - 128 - 59/5- - 0.52 - 542. 20 Shung - Noke clear -202. 107- 75-143-3585- 9.25-148.14 Had a spotuit, 137 - 108 -127 - 6550 - 5:04 - 405 " FO 135--82-165-4900-6.73-108 16 and on Photometer .204 103-75-138-3425- 964-154.16 133 - 110 - 121 - 6475 - 5110 - 408, 80

Sam

204 Same as 201 - one cl 25 miligram, rum on pump for 1/2 hour with Known Then for 1/2 howafter goodvice then brot tup quek to 100 Cp - vary hills blue strange to say scarly on aur can out & no carrying to Clean clamps even

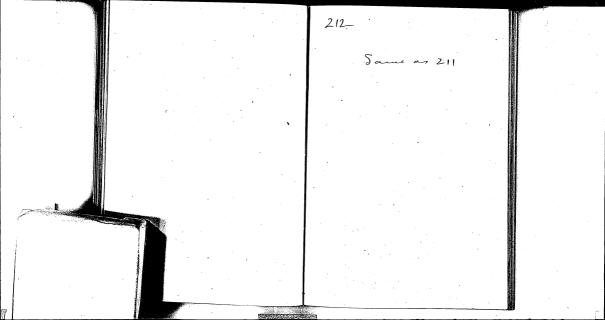
Same as 20 Except some blue to also halo which part cleand one clamp! didn't revuse Either on 205 or the fol she met one damp dirty other not very clean. worked it like 206. Kerosen was in this

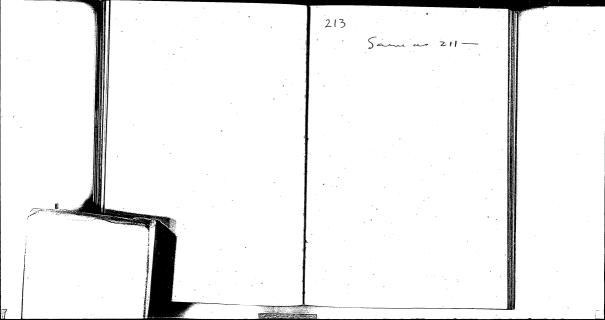
Pat un on pump with U contaming tito of Che Site ent off the chis: when low Che & acon Vis shing probably deposit Silican I clamps *Clian - globe Styles-tuled in nick -): fused KD in globe feet uposable work The halo off, clamp great lundering welf. fil browned are side Velampx clean flobe clian



210 -U tube with Goods their lighted Contain when about 25 - wich Hy- deposit of Carba globe darkened + Whitened - clamps Hock -

: 211 20 mg Jodede Pal womm m globe, works weel clamps clean globe clear fil vary





before picking Com on Them on about how could brug it up to about 80 before Holo clampsony little a. Out ony good fil The globe clear claires clean

Sept 26 1886 Put flat platime waids of filment + sook in ograpy Chloride platime, or Donole Che of Pt and ammon he at 4 see if out Locks together (metallie pt depouled also unmered the joints in spropy Solution of the plat + pass cumit to bring post to red heat or was and decompose the PHCP - also try they truely and Con also Pr Put 6 aules filement in sealed like along with John andy + chlands Carlon in adol End also some Copper dust to about the Ch- then head to red heat protest Eyes - do it slowly try difficult thing in tube my fluit with PO;alow in coal part also with nothing also a cular what lumpustum great change take place - cabon - we said bath'a Unimenter Try Sodium to about \$120 - PD5- - C Put Po, - Che Carbon Coppen dust of bulos tat vac The Calony heat - also fil with coloul

Memo - Sept 26 1886 1.000 Vanit a plated jour with agripe ACT thought vac - heatthe Cu jours in fear ofer pulling on P+cP) then bought up so clamp have + Arch delengored - also make a plat gooket brank should of contain timent type for them work syrupy chilled in I discurpas by weedle point Clams a See of by long running a lang com to wake up to 100 cp without cleaning class Usespark gange with contactoched. tat low pressure (10) point when qualit volume spark - spark must not l'ouch ander glass, - see if contan departed also try in gardene gas to depost Try two carbon Electra side by side in granden tuso per Spark - Try Leave Tsugara to shark + put whole in maqueous ; by flating a spiraling and pet wine break Shanks off contai went + plate with the get life -

manio Sept 26 1586. reliveellulose the surface afreg files unmuse in Ether alcahol Salution. + then reduce by Sulphydrate annual also cut filo out of reloccillation paper - ummerce in Eller, aleal Tal dry areduce to cellulous by Sulph ammaini - try stannite sodium See of can get salvert for chareal looking resident from the Ord Coo petite. See if o often - make some Caramel Carbonize a fil in hotongai treal sugar with plaked lime then Go'll down hard tou of it Candonya, without well Soaksome paper (smooth) in sugarfar 2 days also canamil also starth dry rent one filment get life -Draw from through die hot see amount lengthing tohruhung

215 undried J. J. T. M. goodene in V annex tibe 'Sgot vac' - let un gas got Vac det un gar spout loop at 1/2 candle pour to 2 cp - after good Vac run up venj high clup sort of welted dedut revuse - halo strong conedit get and of t globe slightly whilemal fil ohing but gres um Little deposit clamp that was healed block often unchanged - slight grean on narrow wick lue

Put on 8 foot tuto with Um gerwater to getrid very little Ag fil slyker

andred - 1. T. C. got vac good run her up noticed cabon browned broke vac Alylity a run up high depositing an carbon which is very ohing - got good Voc sealed off - gloca very suggest white with

218 Same as 216-but there was strong Hay u spedrocape - ledat browned, - clamps chan globe dette.

Vet in more purp let t solution brot it ip ven · Blowly taking Caro not to clean clamp reme Comment at last let I burn for how offer why are all out at 80 cp - fel bround mo Tibe darkened sl- gloty in spots malted can

20 feet tukening in Tee wales long whe at 30 cp when spectioncope should fout they and put whole 150 val Mon den fil litt

Reg homp got vac worked clamp dear Let in ACP then reschanted heated get vae hendt Attem

Lamp Factory Notebook, N-86-07-07

This notebook covers the period July-September 1886. All of the critics are bedforn. The name of John F. Ott appears frequently as a witness. The book contains notes, feavings, and calculations relating to lamp experiess. The lamps are numbered 21 through 138. Loose pages containing the results of lamp tests have been pasted onto many of the notebook pages. The spine is labeled "29." The pages are unnumbered. Approximately 250 pages have been used.

N-86-07-07 no21 grey \$ 1886 Tal 1. 500 Regular unmarked lamp put on water gocket pour This lamp was not died, she unmerse grantete water gran Al so it gave CO Every time we shewn in small spectroscope but Exendingly strong Co wi halo - no blue - a globe or if any very faint - conedut geta Thousan - burned it for white had to take it off- put an a cleaned & died lamp -The foliant of lang token of. tadly blockwed

1022 July 1886 Tal 1. 5.00 Washed & dred Regula highland flund vo probably H from decompo - head of on com offsealed it off although meroscopic and globe tented, tarton browned on one Oscale after 24 hours fel Volate 4 mole or tames to real

Dried released Regular Martin Cleane defrup put for gocketed pump followed oxidered of lockend bidly showing water - The Chlorile Colour word for a drier on the prup she boyus of waln It's procably

NO24- Juy 7 1586 709 Washed & drond Regula Thursteful of Carlona Potossu un glate. got va heated XCO2 and gove of lots goi, heated feliment globary blue with mercu 30 strong Concol scar aly see CO2 with little speaking ope, Stopped heating KCd when it ceases given off gas got sold take, burned hamp quet high so cp for 10 15 min Revered Commet Clamps clean - Shine Kery Strange to say lost seem to be taken off - no blue an clamps L' Sout 4 records Scale

25 - Washed & dried Dregular put on Regular pump got vacuum broke I + took of Krump - There Took smaller tule & put phas auligh down through I to Gattom of lamp avery title get on side globe heated globe to make it olick to botten, Then put it on regular pump - he aled the with Know for ownered mins quely got salul tube + broke it from time to tune waterely parting play four it for 20 wins with sailed lite no Kerosane or Curent them for an Current & broke tube, very lette air comes out each time allowed it run for 20 mins no commit then Conclut break it - Revused anut, let it born 10 mins at 50 cp - Couldt break tite let et

26- J. F. an grey 7 (8 after explored filment orbita 3/8. Washed & Fred Regular put tube down + forced small quanty size pea phas anhydride to bottom a little stuck en side globe; Then heated globe make Thos any stick to bottom of Lamp - put it on water gooker purp, Theo pump had some Thosandy put over the chlonic Calcium - heating lamp grutly with Kerosini, Keep it Exhausting while so heated brought . Carbon to dullest red for 1/2 Keep 1st peg in on 2nd Count for 10 min been hearting for 1/2 how with Kurson with solled tale to give, Change for phos andy anytoke to about the water cope - The small " of phos any dropped low partly on " side globe partly in fold tobe where

toceane visced - probably so Vallatitized a then brought lang of grickly to 16 candles came off - Then heated it to considerable air from Macury Vapor where did of Hy blue on globe - it, very other Can't break tube, allowed it burn 10 mins at 80 cp scaled offglobe alightly tinted, filmen frome of both aides - blight Volalization Phos and a bottom globe. Clarp durty . after 24 hours plument vibrates Seal Cracked

Washed and dried Repo 3/4 how on driver - Then with Contents put 1/2 thunstagul phas auhydrile at bottom of lamp none touched order, just little but got an inside part between clauses put in long fibre t get most ofit off - heated lamp ondersent to Jaften + stock phos aubydule to glass as it would drop down-put it on a Regular pump with Keroune Comp medir bulb - I got a sold lite very quik- on first count 9 put Ist pluge in which is 4@5 plugs less than ned & Keep pu of with sold take the cu 4 Kerosene for 1/2 hour . - put 2nd pag at 3,26 pm It didn't Greak down all the time but few un n after my gradually to 4th pag sdull red ran to up quelly

to high cp great deal gas came + Conedit tereok tube even byoneversal Shine all right globe very blue no halo - Lamp cleam - film much bent, clamps not clean phosonly stuck to bottom none wenton side - after 24 hours full to itral to a come to nest mode of 2 Seconds Seal Grank

general Experients - July 10 1866 Cartonate + B. Carbonate dry ground up with pyrogelic acid absorb Oxyge from the air was this in pump -Carbonate is better than B. Coul -Phos auhydride can be Kept + moulded in any shape under gosalene + of course almost Jany Hydrocarbon -Tested cleaned Lamps often going through washing with Brokomate of Potach = 504 Adulted water faint traces Doy with the Barium but second body + working with detell H20 got il of I Entire Cy =

Mucy is attocked by Sulphuret of Palarin - perhaps it wont be dry - Can use this substance ! I pump to about Hy Vapors

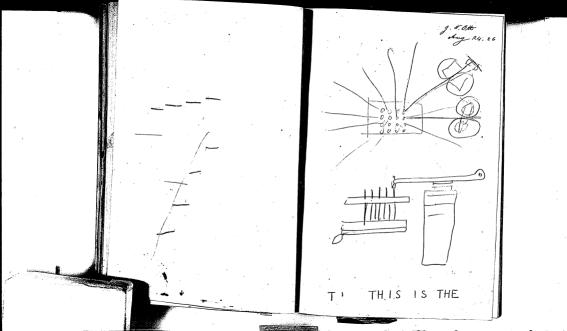
Aug 21 1886 Tag 15.00 28 - stated 1150. 2 16 Hay pur · Slowest pump yet. Laure washed by martin on 12 afrang land until today 21 ang. with Corkin has previously bean washed in Brichon TSO4 trinsed regular way - 3 put & Thos anhy in Exhaust tule of made Juguelan Contraction both sides of it - Heated lamp while taken by Keroome - Lamp - took it off at 3 oclock worked it up very slowly - then burned it for about hour at 80 cp - grute blue in globe, Lator didn't remuse poles Uneside comewhat from other sade very chaning Cla morde that col fround to other pretty clean - glasse Considerably timbed in irregular

Aug 21 Tried running lamp 821/861 1228. off oh vacuum Regular than break V- amp- Ro- Fills - lamps C. P. D.C.D Vacuus attesting sedes of globe 102- 85-120-3849- AST-187 "16 for transport film-didn't get 134-1.22-109-7211-4.07-366 .. 80 any put another lamp on from off signed but burned t PU- 78- 72-62-50 for about 40 ments at 80 a Mumbes Cashel 600 got blacking in blotches This Lane off in flu quality with HCP - Conedut disable it Bull vayblock one with Hef + Mitric and Together or matthe of 803 - on heating Clamp block lither there was a very tramping Vacuum jood film - first lamp that conding "by soon bould was Dife from the ash or the film is a compress. franced by H O The Carbon I whoh company a not thus attacker

7

Arig 21 1886 -Put salution of permangance of patoch in globe twoparted. water leaving a film. run it negular the allowed itstay on pump hour at so epasing eylobe blockens in very I conspicuous blotches deta place show absolutely blookening - no Curve 8/23/86/ 1/0 80. ared in 25 mis.

29 - Slow pump - phos and in tubo x bulb - got vac than he ted it quak got all aur could out & then power stopd got good vac + scale off - wated me sula partince 6 145-1.03 140-6592- 5.01-401 " 80 are d in 20 munts



22 aug 1886 Solution of prophosphate way with Bichon K +50? Comman distilled water then The distitled water certaining the pyrophosphate - a little Solution touch Carbon V Clay dried on drier -Slightly browned both side globe slightly tinted more near metted -· globe not soven black for Athe life - rather less than

MO32 -Salution of Mitrale aurumia -Clamp metted - Try

Salution Chlonde Cappir-Very slightly blockened - globe 137-103 - 133 - 6238 - 5:29 - 423 - 80 at first what afterwards got quite 14- min - min - min - min - min - 11m 60 - 66 - 62 + 55 - 50 - 44 - 40 blue-probably floride deen 950 1253 1925 1575 1615 bueb char Except olight Copper 39 - 32 - 30 - 30 - 29 Minich lasted 2005 faint deposit down by clamps, clamps clean but duck globe brownish block I Clamps clean.

34 - Same Except Scoper Chlande Chronium with Little pratiche Chromin = Ses ymi dont ocen disolve good one fluid browned 1/2 1001 V- amp - Ro - Illh - lamp 000 000 in onesite - revered 102- 12-141-3230 - 102- 451 (GLD) Cornet. Clamps clean but 132 - 105-125-6149 - 6:37-400 - 80 Blockens globe - one side p- min - min - min - min - min - min - 62 - 52 - 44 fleccent not dead "black - clamps clion Munlis lasted 325-

35 = Same as 31 Except perchlande of antimony in water = Solution rather Opalescent = clamp clean - film V- amp- Ro- Ille Luis O.D. seems unbrowned telter 12 106-12-144-8362- 982-157" 138-108-127-6591 - 5:01-401 . 80 side, globe just skade At 40 80 150 150 430 tuited Minutes lacket 500

glocal phos and Solution got on carbon globe clear filment pretty Sking - claups moderately Clean nothing Else notienable 1/36 - 1/05 - 129 - 6326 - 0:22 - 418 " 80 Mumulis lasted 250. only moderalely block globe clarge clean

37 - Same as 31. Polassum Nitrile -Salution allowed It's get on Carbon & clamps has getting it off pumps deposit quite lange

38 Same as 31pyragalle and & Blank Botosh Satura delut get In clarps or culm v- amp- Ro- 76. lls Lamp C.P. W.R. Q.C.A. much as of that her 107- 16- 240-0898 - 917-197 " 140-112-125-6946-4.75-380. - g 500 mmt due to action of O on pyrogalla - filmet Munilis lasted 250 only slightly of any browne about saws color filment dia

Orle Magreoum Strong got it over clamps pup stopped a phosoachy How y to Zomp - sloot for the night - let Lamp slay on pump - at q an 24th started Imp organ almost uposle get Vac Vac even after 2 hours bad phosany all viscous from about of water probably from Chland Magnesona filment (Growned clamps modulty Clian - globe Clear Except unashed Somp put. 192- hot - 129 - 6636 - 4.97 - 394 " 50 it on pump - to pump stopped brighos andy jumped ato Lours and in 20 minutes let it remain on pump but with an apace all might started it 930 an 24th-~ almost unpossible get Vocum - famally got four me - one side il fromed globe little browned in spot Thos and welled in Pette spots - Clamp clear not aboutly one the is Bisage

7

Nobe clear 45 - unwashed -1/2 gramme dry oxede of centimin one damp block almost up on ble get other charle ar out the Lamp dunt block probably it dies my.agai Clarge clean - very deffect preventing them meeting ones de file t brownel The hange _ ComeBuch very little blackand falm. lead block - clampoclean g-amp- Ri- tills- tinh - who en 12-11-18V-3457-957-163"16 183-110-121-6459-511-409 .. 80 Tret 37 150 260 pu - 72 - 87 - 89 Minutes lasted 2.80

Unwashed Lamp Seems wet - amorphon Pha Stand, high heat within Change - Lamp work well phos sticks in one place Clamps brong dark- filmet bright bulb clean - 1.00 -127 3 0818 - SIF7 - 470 Mumber lasted 145.

NO50 - Unwashed Lamp 1/2 gramme dry Fadele fead June Lead Valally wither decoupordien globe very yellow almost Opaque cartsee state 149-114-101 - 7021-439-193 - 44 Mumilio Parlice 10

52 Unnoshed hamp J. 5.00 Dry per oxide Baroum /2 wamme - heated with works well on pump -8/24/86 We 52 V- amp-Res, Fithe Time HE acr 110- 77-143-3700-892-143. .. 16 144-115-125-7344-449-363 ,, 80 Minutes lasted 575 Search on blackening globe

Washed Regular - This Solution Mitrite Polassium. (not sure) may be Be sula Carbon but Thank not - forgot to Nember it feliment bright - hamp vridescent fringers near clamps clamps lity-8/24/86 - 1-027/2 Oxidized before reading Could be oblamed, Cricked - Seal

8/20/86/ 1241 V- amp Ro- Fills - lamps Q. P. Q. B. P. up - min - min - min of slightly brown 80-71-02-38 Mum lis lastel 315-Very little black for the life wish below average: fil block

me side very different Keep from Wetting clans globe clear V. amp- Res - Tilles - South His @ CP 98 -12- 136-3141-1052-168-16 128-101-126-5707-5.78-462--80 Set 50 150 260 460 770 940 80 76 60 50. 42 33 30 Minutes lasted 1075 globe very Little blockenes

Burate of Byrata. bright - very difficult V- amp- Ro- Fills Lange 6.P. C.P. 99-73-136-3185-1936-166-1-16 130-1.03-126-5928-557-446-1-80 80 68 50 38 36 minutes lasted 545

Alut bround are sidl- clamp de globe chan doutwork willa pump V- amp - Des - 7ths - lamps 0.D 130 - 110 - 118- 6326 - 5,22 - 418 . 20 set 30 130 260 460 770 up - min - min - min - min 80 - 76 - 38 - 48 - 45-34 Minutes lasted 820 place only little blackened Best yet Except the 3100 ments unpt There are apots where there is no blockening -

no blue u globe duties face take -Clamp dark drab bulb slightly tited was 109- 175- 152. 8628. - 9.09 - 145 " 16 142-109-180-6857-4.81 585- . 80 Muncho lacked 150

hadget off pop VEny the from Ag one side flu 8/24/86/ . Wa 44 N-copy Res- Filles - HIP HAP OCP 100-70-143-3097- 10.67-171 - 16 131-100-131-5795-589-455 " 80 14 min min mins mins 80 70 52 UI minutes lasted 365 globe block perhaps above

Unimohad dam 8/24/86 Scognioxide of From V. amp - Ro- Jethe Lando & P @ C.P. 101. -74-136-3318-294-159-1-16 130 -105- 114-6061-5.45-486-4-80 Comes off when be deal to det 20 150 250 350 660 830 980 Kerosene Larg --80 73 60 52 44 34 Minute's lasted 1160 Clear globe - clamps Clim a although slake very alock burned keyl for 1/2 hom Lil block - clamps both side followed phining -

Ferricyande Pali Little had to mat 0- 12 - 40 min - min + sadis. Muniter lasted_ 1475-

Chlande ammun Dances avalation in Lampwith Known Lamp foliant diad block too much frosted 1049 V- amp - Ro - Fitts - temps Q.D. Munito Sasted 60

Todale Polisie Clamp clean - of Salt V- amp- Res- Tills- lamp 97- 78- 124-3362-9.82-157-16 healed well by Keroven 127-111-115- 6238- 5:29-423 . 80 Lamp work off cary not 20 50 140 260 570 740 591 bulb clear film 80 - 80 - 12 - 64 - 58 - 4P- 45 - 44 Mundis Lasted 1060 This damp is returned a 54 - Thre Gang two 54 hitche tis 64 notabit of blacken There is a light browner Coloration like the 52 hour 800p This won hight track sprobably

62 - Unworked Later Peruaganata Polaron and several arcs famed - La one pumpes

Clamps block Vamp- Ro- Fills - lamps . a.D. a. P. 13-141-0318-9.94-159. 16 184-1.06 -128-6282 - 5125- 420 " PO Munich's Parlied 120 globe lightly 60 rekens I cake

ground me side 8/24/86/ 4060 v- amp-Res-Fiths - lamps C.D. a. C.D 105. \$3 - 144-3406 - 9.70-105 " 16 137 - 1.05 - 130 - 6371 - 5.18 - 414 Municips lacted 50

bedrut high for 3/4 how and in 125 muchs

Tartrale antiming Jupomble getvak Litherage globe dear - file ok - had take of 1.56 Mum hi lasted 140

ű,

53 Unevash Lis acetate alum yellow residue - Alobe Clean clamps detto Golf sides - distated 8/24/861 10,50 V- amp - Res - Ills - Camps C.P. 111- 10 - 159 -3457 - 9.57 - 158 . 16 147-1.04 = 141 - 6769 - 4.88 - 890 . 80 Ore of in 10 annieles.

Universed Kamp Chlorate aflatush globe clean one damp black other not cle V- amp - Res - Fells - lamps C. D. Q. C. K. Chlist Welled -101-70-144-3141-10.52-165. 16 Came off hand slight from night near cloups at 50 min. deep close blue on + clamp arcol in 185 min. one side foli prowned Trear of

arsenide Cadmim tvo much - globe blocken absolits 82-Cinna Merchic oxide aid on purps

Motalle Tim - powder white Valetite water Comes off - very little au comes off - globe white scapt at high , blue only works spend bright both side Calbin perfectly strong et V- amp- Res - Fillis - lamps C.P. Municips tacked 600 stilly block

Willashed Lang Nelroprusside Sodium Mobe little timbed filing not perfelly 8/25/86/ 1:69 V- arif- Res- Fills- lamps O.D . A. 106 - 16 - 140 - 3575 - 9.25 - 148 ... 16 Munilos lasted 150

bla Bulb clear Carban clomps clean - off Easy Ir- amp Res- Tilles - tamps 6. D. a. F. 100- 12-159-3190-10.35-166-16 130 - 1.02 - 128 - 08/5 - 5:02 - 450 - 80 ect 40 130 800 400 690 700 1130 Mum his tasted 1190 damp about regular block clayer clock

Lead Chloride Jon of any Ag blue -Globe colitered gournelat Clamps clean - filmt offerally show, both. 11-15 8/25/86/ 1- amp- Res. 71ths - lamps C.D. C. 12 113- 71 - 159 - 3550 - 9.29 - 149 , 16 149 - 104 - 144 - 6865 - 4.81 - 385 " 80 Mumbs tasted 83

Unwashed Lamp g. 5.00 Hydrobromate of Ammonia Wolatitizes before heated with Kerosene Lamp -

Carbonatiland almost up ouble get Vac lup de -Clampidean file 8/25/86 110 74. V- amp- Res- Fills - lamps & O. 128 - 63 - 203 -3575 - 928 - 148 " 16 149- 78-192-5150- 641-208- 40 set 40 130 300 450 40-44-46-40-86. Mundis lasted 540. less block than when white is spot class.

67 - Universe Lamp g. J. O. Arsenias Patosh fulb tinted-fle block - word block yetwhen pungo hand to get off 8/25/86/ 12 67 V- arup- Ro- Fills tamps a.P. O. a.P. 107- 18-134-0700- 8.92-145 " 16 138-114-121-6970-473-378 .. 50 AU- 82 - 56 Munto Parted 180

V- amp- Res - Ille - lamps C. 100- 18-129-5465-9.00 -108 180-1.10-118-6558-5:20-416 21 40 150 300 450 696 950 1130 14 - min 80-14-56-52-46-08-08-08 1600 1960 2190 2590 2695 5530 5610 min - min - min - min - min -01-30-28-26-28-20-2 Munch facted 3785globe tuled tittle prog I from hampblack little Pretty block clarge not very clean - the block has a yellow in namon pat globe probably a Hydrocath for Yellowsh Caster think great deal of it due to denty effect of movement of the loose Lomp block Vac good -

actale Lea.

Toomuch water it

Ferrocyan de Potosk bulbalean clamps Clear - film to very slightly browned low V-aup- Res- Fills_ lamps and 98- 50 -123-5475- 950-152 126-114 -111 - 6375 -5718 - 415 " PC barned high for over -201. 60 250 350 620 580 1060 1650 1-64-52-42-41-54-52 Globe not nearly as Manih-lasted 1900 I block as it ought to be for this life - plumint dealblack - clamps chan quite block. fil dead block

Bulbalean impossible gut vid aur - solt I swell up Enomo of continuody gues 3/4 hour on prop 8/25/86/ 110 72 V- amp- Res- Flits lamps c. D Munites lastel 110

Lttle browned in narrow wks Easyon pu V- amp- Pas- Titles- tamps C.P. HR-O-CP. 102. -78- 131- 3525- 9.36-150-1-16 132-112-118-6550-504-408-1 Set 60 230 380 620 870 Minutes Lasted 1030 globevery black Many's clean

tales place V- asup. Res_ Fills tamps C. P. 99. 75-132-5300-10,00-160.16 128-105-122 - 5945-5008-444 " 60 brown - film - t alcloups chairs Muniles lasted 410

nothing in globe but there are about 2 1- auf Ru- Illbs lamp 6.2 4.2 6 8. NO - 50 - 125 - 3550 - 9,29-149 . 86 unllegran Todan in 150 - 114 - 114 - 6460 - 5112 - 410 , 50 aming phos autyonde 26- 40 10 260 500 760 940 - Cup - want to see 80-76 - 69 - 56 - 40 - 40 of Lump get the -Minules lailed 1325-Lamp free of blue works off Geautiful globe rather black hardly any on clarges love claip clean other dull brown filmet Conton black - fil dead Thinny

Coloration 9 Ever saw -Clarp lead Color. who Easy on purp no blue - floot slightly browned one side Selemin for their Minu lis lasted 10

N-amp-Res- Fells- tamp & P. O. C.P. there we z mill Hy blue u globe - Todi. Minutes lasted 130 probably got covere y - globe clien film A little darkener

V- amp- Res - Ills - lamps c. A nothing in Lamp 102 - 44 - 138 -3350 - 9.85 - 158 " 132 - 1.03 - 127 - 6025 - 5:44 - 456 .. new pump with 2 gra 10 - 40 110 - 260 520 760 codine right on top. 81-80-14-64-44-35 phos aulydride - Cup Mucho lasted 820 no blue in globe - little whitened wear class day chowno ter Brownish black - about to well run filmet gregular amount way up above regula damps slighly diet Clamps not clean filement bright from clamps. but pefetty sking. to 1/2 mobiles on gide that works of Evoy no an or at least hally on aft ved heat other very lett.

1683 8/26/86 nothingui Lamp-pe V-amp- Ro Titles the HAP OCP 107-72-149-3406-270-155- -- 16 on drier for 20 minutes & 138-103-134-6282-5.25-420heated - then put on pump with piece dodine about 80 18 72 68 58 2 mg on top phas anhy Minutes lasted 350 m cup - globede. no olue - com run nat cleane

Dried on drier with heat then taken off and a solution Say 20 drops of Gasalene with Jodene des alors en I pound in lamp while hat It worked very Easy scarcely any air came off got a whoun in few menution, but on allow. it to furn our came out also notice faint blue halo an clampi although globe white white of free from blue Strange to say while the globe is white at high Cp - The blue hale decomposition of Judide of the

Blue in globe clamps dias burning 22 hour at 30 Candle - slight browning of globe - the shine is not perfect on flunt but Even all over 8/26/86/ 1.71 r-amp-Res-Fills tamps Q.A. 96 - 78 - 124 - 3325 - 9.98 - 109 . 14 125-1.09 - 115 - 6050 - 5:45-436 . 80 Munho fasted 200 Nobe black near than usual for this life - one side fill Maingo clean -

Putandrier with heat taken off + a stronger son of Todine we Yosoline pour in hat glade works same as 71 - Excep by running up very high it floshed in blue - them blue Came in for some him Very small quantity air Keeps coming of at 30 Canthe Latstop Strong ohowing

hamp not put on driver about 1/2 the difull godized Gosaldie put - globe + W- amp to Hells hope ep ex put on pump with wide 103-37-134-3495-944-157- "-16 all worst with the leguid 135-108-125-6459-511-402 1-80 The lamp has blue in barned To hours at 30 Cp without absolutely clear tube - their 9 put it of for 20 minutes Minutes lasted 610 to about 100 C125-Cp folumet string - glate very famely thated brown Brownish Rede one clamp chan - noticedia when I bulled pegione clamp moderate what hot - other clamp intouched Wire on one clays. dean other undepart broken but fixed derly Aldedolock rute shakey manner -

Unwashed-Undried Lamp put to of size più head Todine . in globe - when saled the obtained prece had V- and Res- Tills lamby Q.P. hooppeared - blue in alobe 99-14-138-3225-11.23 -164 127-108-118- 6075- 5148- 4154 F Shewing not Eng Jodni - probably some 20/- 30 80. 300 520 961 1350 reaction with water - 78- 68-49-42-34-31 ased of all up as the Mumbi lacked 1500 largewas andried blue un a lobe but no · that are not blue -This who had a hato that a globe fil drad block filled the whole of narrow

Put in 2 pur head Todain put on one of the pumps that 10/08 prevening has Zudine in V- amp - Res - Fills - lamps O.P. W.P. W.P. (W.C. Little blue in good q lobe -112 - 18 - 131 - 3525 - 9.36 - 150 . 0 whale of Ag-Very blue - globe clion 80-80-74felent bright very Mune los lastid 400 slight how wer clody Clarge unchanged Alobe regular block no brown clamps washing fit led

Unwashed - Undried. Full pui head of Todeni put on pump when Jodan had been before -V- out- Res- Fills - temps OF OCK no blue of halo - no after ari - Clean tube Comes = 1.17 - 118 - 7150 - 4.61-169 " 80 off grade titlle white deport down wear clamps. 80-76-70-00 damps duty or rather Munulis lasted 411 took lamp off a 15020 globe dark but it is nearly brown Clamps clean - for dead black

Dried an drier wethout heat 1/2 to 3/4 purhead godine put a globe- put an pump where there had been praviously a my Qu- 78- 69 - 45 - 35 slight amount Todini -Munto lasted 760 nativilhstandy, considerable codine of solight whitening near clary's globe is blue - must be the is Clory char fil has Rodin is wintfrent to Satisfy Hewhole -The purp tube thew liney small

dried without heat on drie put Comple Crystal, Jode -Put big gun cap free of godin - globe Tout it on one of the old pumps mfall the with Agg -

pur heads gadini phos Take or fall like to stop for the worked will the top worked will V- amp- Rio - Tills : Campo C. A. Agrick no blue no holo Todine all des appeared it is remarkable that, Mrs min - , min the time of patty first play Votts across not more than a Muniles Baried 270 gun cap full of au showe There was no after the Either Moke brown block. as in those lamps which show more than would for monfferrey of godine The life Clamps red Grantful loudes cenar near I Leadblack downs not desty still clean but very dull x redich white deposit on words part hear class, what part of it has whicked the part but off is white other not - ocens.

is it must have git - the anch on close majestion the flu atthough Even is not very shining probably it it is not Do originally - The undercence Haded with Known Lap by transmitted light is brown Everything thing same as one of the clamps in Chocolate Colored or other color V. amp Ro- Fills lamps CP OCP 102-77-133-3475-950-152-0-16 132-112-118-6550-504-403-1-80 Minutes lasted 2 55 Holevery Clock Clay of Lead bloo

1- auf- Ris - Fills - lamps e. P. Q.C. P 114- 14 - 154- 5740 - 8.82 -141 " 16 148 - 1.15 - 141 - 6885 - 479 -583 11 80 r-amp- Ro- Fills - amps and and 103- 1/5-138-3425- 264-154 132 - 104 - 124 - 6230 - 5:20 - 422 , 80 Munules lasted 175. 26 60 125 305 195 1135 1865 No - 74 - 65 - 44 - 53 - 28 - 80 Only light Brown Munho tacked 1950. alobe very block.

10 milligrum VodidePat Works Exactly is in 93

15 Milligram Todas Potoni heat with Kerone Lamp Blue on globe-large area, halo - clamps cleaned appear to work regula Except there is a ourpris small amount of gos confes 1 69 125 865. off at high or ever low heat not a gun cap fall from the Munitis Parteel 620. 1st pig - Warked it op Olobery block down chant fit dead which

unworld oundries Dut a about 10 mg Todade K then about 10 gramm of Phos any in globe -V-amp- Rio Fills lambs e. D. 4.2000 Some of phos KY come ... - 47 - 135 - 8625 - 9.11-146 - L Contact turned yellow think there is a Chemical reaction for many be phose PK + free godine - portion 20 min. bright spot in cartin of Phos anhy & K9 don't truck Munils lasted 40. Shall be twith lang not heated on heating Make white felicet : great reaction took place probably godene Come off deadblock fall title clotted -Clamps black. globe stille browned -no There is globe or halo- Vacuu may not be perfect as a sealing off The was some stiff - The Colonetin - clamp duty

11

104- Unworked J. F.OK about 10 mg phor anhy a globe & 5t mg-of godin on NO 12 pump with double Cup one comlany nearest Lump phos and, other mercy - letter To about codine & prevent tyn to file Che-Phos any nearly all welt godine probably all went an Cup as Even thethy there didn'ts top to at went fall tube - probably all wer out of lamp or was absorbes by phosanly as it has a pecul Color - The globe was blue

Broke are Lamp 8/26/86 / 12 10 4 hours C.D. V- amp- Ris- Fills - h.R. 4.R.Q.C.D Dout Know No -118 - 78 -145 -3910 - 8.44-135 .. 16 thate its one with 146 -1.10 - 133 - 7125 - 4.63 .070 . 80 godide Kii ascidin smundis.

76 - Unwashed - Undried about 10 C15 - Milligram Brownede Polosiam -Scarcely on the - slight flue halo - scarcely in au works off Easely! globle fautly opology clamps clear Munich's backed 190. Clock of Cabe -Home Chan - for dend block -

5@7 Millyn Bromide 89 - Unwished Undried

102 - Unworked Mendined 5@ 7 Mollegran Chlande - Chlude

10 Crs Milhy - Chlonde Conedityet of too

2@3 Mellegrams Oblande Copy globe turns yollow Phlome Comes out a great quality V. - amp - Res - Fills - - lan 108-77-141-3690-894-148-116 Little pump-138-106-130-6475-570-408-1-80 Set. 40 90 Can work A probably an infruetal minutes lasted 155 Vamall quality of Chelle night work-. fluit shining globe white brown no block - almost opalescent Cont see fil to see Color

17

105 Undried Unex - 1 5@8 Millegram Godide aumon Valalityes badly globe opaglely white -

94 - Unworked Unlied -10 Milligramme Todede Bariam "nobbee no halo-scarch any our comes off works quek-globe family opalescent. Cardfor 94 is where

1. Milligram Chl Cope had to heat with Kerose detties purp- a yellon matter valuatitys N-amp-180 tills large CP- 6 cp 108-75-144-2583- 921-148-141-104-134-6503-502-406globe has slight yellow Fint clamps durly film & shing minutes lasted 80 only frown depos it Cloty Clean fil dead block-

dried wheated down stairs Yodede Zano Works. Eng just heated se Clarps : bochre color 142-112-127-7050-4.68-374 " 80 globe brounblock considuable for Minutes lasted - 65

ŧ,

Dried theats down stains one poi head chlord Con Clear at first then very blue - globe no halo - revered bested with Known - van Lttle an clarps whole V- auf - Res - Fills - tamps O.D. A.R. - H.P. O. O. P. 111- 15-148 - 3695 - A93-143 .. 16 143-1.08-133 - 6845 - 4.82 -388 " Pa Munti lastel 105 Brownklock in spats aug clean fil cleep brown

122 - Dried & heated down stains Todide Iron - 3 milly n Countrable air - works factly fil shing slight from tut. V- auf: Ris - Ills - trys - C. D. Q.C. 10 97- 89 - 140 - 2176 - 1848 - 184 - 16 Clamps autyred -126 - 98-128 - 5442 - 6.06 - 485 ... 80 no ohie Munitis lasted 90 Brown block-fil

Dried & heated down stairs 123 Todile Cadrinum gust touched it with slight, Exceedingly Easy globe Somewhat of descent or ochre no blue . It 123 8/27/10 134-104-128- 6176- - 0184 - 427 60 125 2 40 80-72-60-54 Munder Partid 493

Dried Thealed down 360-Unslaked Lime 20 miligra Clamps not very clean radhin - fel tohen very little blue - revened Circle, somaly any followhats 3/4 wash 10 124 V- amp- Res- Felle - lawfo cid Q c. 12 104- 84-141-8420-965-154 " 16 186-106-129-6595- 576-418. Dearcely any blacken one blockened spot offor Munter Pasted 410 break -. Chargenelle

any gas comes come offglobe slightly tuled, clary under jed felint seems to have a Hydroce leport or it has not be London slighted: V- amp- Re- Fills - lamps a.D. M.R. C.D. 114- 46-150-5845-855-37 "16 149-110-158 -7125-4.63-370 " 80

Kealed & Dored down 51 20 Mg Ideform put. a baddy got all over globe -

127 Healid & Dried & own sta 2 mg Idifam -V- amp- Res- Ilth - lamp 8.0 0. 105- 44-142-3401-907-100- 16 didn't heat globe at all 136 - 1.04 - 131 - 6238 - 5.29 - 923 + 80 heat of fillent Valatityed oct - 30 110 470 700 1000 1195 1990 mp - min it all up in neck clamps DU -96-15-49-46-53-50-87 unchanged - no thy broad Municis lailed 2/10 digost file Straight - globe the tintal slightly -Bull only Vellow much white deposit near claups also a copper depost fil my deep brown

128 A+ Dr. -) DS 4 mig Idfor J. J. Blb Nothested by Known - all the Ideform Volaletyed in V- amp- Res- Tills - 4.1 - 4.1 D. C. 10 weak of lamp by heat felow no blue or halo - no tender melt. clamps unclay net- so 60 110 flunt Extra Shiny prot 1/6 ylocabon deport fil 80-116-96-66 stranght: place family Mumbs lacked 175 buted - scarcely on gas comes off. Lamp brownsh while almost of agre nahart of down stains top from tohing while atter patfoliment block

129 - Dried TH Down stro Img Yorkel Cheated it Alght by Know Enfire 7- amp - Res Fills - Pamps heat oftends -Who Easy halo but no Che my globe - remen Cumit, clamps Muniter lasteil 140 globe slegally that glabe bround black 1 Considerable for short life cloups anchange fil not dead block -

Dried heated rooted an Exhaust Phos any 10 grms - also tule of I deform new pump phos andy seems dry in he charagthal Exhauster dos work Owell - flant V- amp-Res- Fille - limbs C.D. O.D. Deen oxeded while looking Jor - 45 - 144 - 3583 - 9.21 - 147 " of it on the Jump - White 140-107-131-6636-4.97-598 Color in globe volalityed phis all should to Viscous mori - I find I deform gives chancel Readia with Minules tasted 165-Ophos andy that the Explanation of small gu-Igos com y ff must lear yellow - wredescent - I know to pother drye blackwhite light Meturals Fish on Chland Burnt Komis - Ignited KO x nao- also withit K + Ma also find chil Zino burnd tat 80 for about 17 hour globe - white of

Mudried - unwested -10 mg phos and y to X /2 wich the filled with Idiform.
put a phos many jot wire as put a phos many jot with

No phos anhy in Cup heated idried on Exhauste cooled When off tube of Idefor put in glabe has slight whitening. Splint was solvery but ofh V- amp- Res- Fell- Camps C. 2 60 C he ting Todeform decomposed + 10 - 1.12 - 116 - 6459- 5:11 - 909 " large quantity you came of but the was quickly 40. 165 275 absorbed by the infact take fall twice the thefore up. - min - min - min Valality with face take Mumbis tailed 485before Watery tot adma Vemperal - The foliment fil dradblack Arow is shing fut has lost followsh block u globo thisdienty afferino. Octomps clean undercena in narrow pail

133.damp put on drier rheated then put quakty after I was nearly cald on No 13 pump- this pund had previously Ilo Com & phos andy was little torseons on top v- amp - Res- Tills - Parts 1/00= 45 - 140 - 3500 - 9.45 - 137 " allowed to run to sold lube 136 - 10F - 126 - 65TU - 5:0F - 406 and then delet louch it for 20 minutes put in find pag runther way for 10 minute then in so seconds run it us Minister Partice 90. to 80 0100 candles for welout pullipeg - and their for Seconds time closel it at 80 C100 CP very little au of at hay will sump an still Your block - but more than there should be duty time show half after water the water of the for obout life - clamps Durafilo mitali rather clean out look affect untacky The Me burnt Copper ful lode -

134 - Lamp andried Put on pump with no 8/30/80 phis anhydudi in Cup V- amp - Ris. Ittle - lamps 6 "globe very blue let it Burn for hour often work, fine Bells Reption Pu - PU - 64 - 43 off continued glot Minutes Carlist 800. Cha- fold tous hings Veny block for life fil dood block class most beautfully chan never saw them so che

Brokenth + Joy-Chlorde Zine poured .. Then put on Exhauste + lived - put on pumps + Exhausted reg was foliment bright globe longhet, brokened -V- amp Reg - Ills - lamp 2.26 C. D 103. - 46 - 136 - 3475 - 950 - 152 " 16 134-112-120-6650-4.96-597. 80 Ju-74-63-48 Muntes lasted 673.

17

136 - Dried on Exhauste Coming out for how Vocama flement bake browned globe clear! Clary clean fashed 20 minhs

unworked and ed Fine ferrocyondek - globe Halidby Knosm Exhaulted quick put or cord tohaken while at so cp so farroyad would touch + loot file with KO r-amp- Res- 7ths - hop a. D. O. 104- 13 - 143 - 9370 - 9.79 - 157 " 16 134 - 104 - 129 - 6175 - 5.34 -427 " PO Thumbs - Lasted 25. Bultcheir fil shing

138 Unwashed undred -Chloride alumma - heated by Kerosen Chlom Come off & great deal water. deted purphadly fundly got vac 1 seoled off of putar Cord & shook lamp to get almost in Calated with file t V- aup- les - Fill - thing 0.2 @ 0.P. 103- 13-142-5375- 9.90- 158 " 16 while about 100 CF. 132-1.02-130 - 3970 - 3:33 - 042 11 50 globerather clean Ofdent little browned. Minute Lucliet 260

Unwashed undred Throndelaleum - glob beated streated as the 37438- felit blocks or valher browned -V- auf- Res- Hills- 4.1. W.P. Q.C.P. 107- 14- 145- 3620- 938- 100 ... 138-1.07-129-6545-5:04-403" 80 po - 80 - 52. Mumber lacked 200 Rather blocked futhe life fil female life Clarge dury

PERSONAL PROPERTY.

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Oxede alemma - globe worked same as 137 Vamp- Res- Fill - lumps 6.2.00.0. 96-11-123-3250-10.15-162 ". 16 125-108-116-8985-5:51-441 " 80 det 30 180 300 po -68 - 50 -. 38 Municho - lasted 705 of flote smake it white he for black - al powderd

141- Unwooled landree Delici acid (10) oxíde Silicon - Same as 1379738v-amp- Res- Illes - Pamps a. P. Q.c.P. 107 - 44 - 145-5520 - 958-150 " 16 15 - 116 - 151 -6475 - 5,10-405 " SO 80-80-54 Munich lasted 210 globe little block fol dent block clamps clean.

Unwashed undried Telephone Lampblack soaked in gooden & then forced through I'mesk of Exhaust tube in pump in Cylindens - Lamp put on 13 1 worked without heating Lampbe probably heat of filment brought V- amp Res - Fills - lamps and and CA Dane Het out flient sleet sh after getting tube soled Trever 95. 77 - 129 - 3250 - 10.15 - 162 .. Current heated Lampacock 124-1.06-117- 5825-5.66-408 .. 80 with Kerosen Lamp - Exhausted to clear tube a run filment up nd - min - min - min - min - min - min got clear tube allowed Lamp Gran at to C for 10 minutes Muniles lastol 850 Sealed off - Clamps show decided tendency melt. Clean - globe clear yellowsh block less than usual -I black - clamps Clean

Same as 142 - fel Thing on one side very dull brown on atten Everything Else same as 142 V-amp- Ro- Fills - lamp e.P. per 104 - 65 - 160 -3000- 11.00-176.16 137 - 93 - 148 - 5650 - 5.84 - 467 - 80 Munichi lastal 105 onesed coffil shony other dead black Groke on Dead black Aide - clarpichan globe about right amount blocking for tofo

Same as 142-but Long block healed by Kerosene befor working lomp clarp clean of clear one side fil shing other Side very brown for 9th V- amp Res- Fills - lunds C.P. @ C.P. 104- 40-149-3225-1023-164 . 16 135-103-132 -6125-5.35-428 .. 80 are of in 15 min. Jamp broke all to knew!

Same as 144 one side fil not so browned V- amp- Res- FUlbs- Lamps O.P. QCP 107- 43-147-3465-800-150 . 16 138 - 1.05 - 130 - 6425 - 5:14 - 411 " 80 80 - 75 - 56 Munch lasted 240 globedarker than showedbe 1 Clarps clean - fl dead block

Same as 142 -V- amp - Res - Fills - W.D - 4AQCA 106 - 1/2 - 188 - 3375 - 9.78 - 157 - 76 arcid in 15 min.

Unwashed Undried 4 Thursteful Telephone Laws 6lack healted with Kerosene while on pump + few when of Vacuum - Enormous amount of water Comes aff also great deal per fixed gases often heating strongly would up to wetting grant glass grating solis title worked tomps up showly pay by pag- revered Cumit-V-auf- Res- Fills - Will - W. D. O. C. Clamps at certain Cp. get white hot + glob very the with Hy 108 - 10 - 108 - 3330 - 9.85-158 ... 16 after getting up slower to 20 cp 142 -100 - 142 - 6290 - 5:25 - 420 - 80 or so - then run up rotten quake allowed Loup to bin at say 25-cp for 1/2 how to get his Munilis lasted 245filmed somewhat Brown globesuskeden little il dealblook Nobe blocks Octours very clean globe clear I dup blok don't stick me clean the lette det

Same as 147 one clamp clean other durly globe clear fil bright v- amp- Res - Fills - Louds O.P. Q.P. 108- .68 - 159 -3230 - 10.15-162 " 16 Munils Casted 45 to 62 the Browned all over-closure clean - por DA Same as 147-globe clear Clamps overy clean fil very shering

Same as as 147 -globe clean clamps Iclean fil shung -

Same as 147 - but on long contraction in Hy globe clian clamps. I showing 9/7/801 10/5/ V- auf- Ro - Fills - we up 6 C.D 107 - 12-149-3420-965-1840. 16 140 - 1.04 - 139 - 6430 - 5.12 - 410 .. 80 80-67-54-48-56-04 Mumbi lacket 685 globe too block for his clarge duty fil Drdblock - J.J. M.

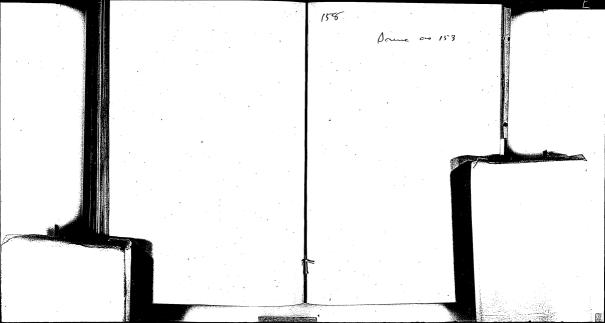
Same as 147 globe clear - clamp not very clear - fil V-auf- Re- Fills - But of M. P. Ce. 102 - 14-138 - 5350 - 9.85- 158 - 16 182-106-125-6200 -6.52-926-60) - 18 - 61 - 48 - 38 Mumber backet 420 Lampbulbrather dark for the

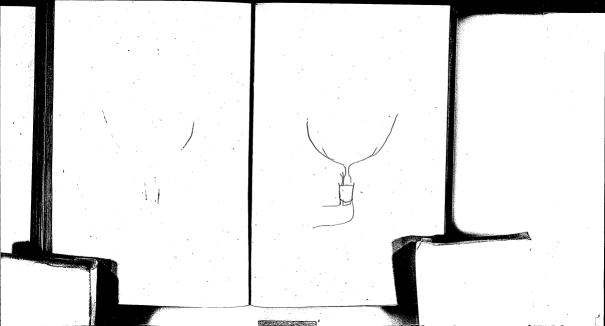
Thurbliful telephon Lamp Clock m orde like V- ausp- Rs. Ills tamp C.P. 10- 61-124-5595-918-187-16 130-118-110 - 6800 - 8.85- SEt .. FO act 140 120 175 180- 80- 66-54 Munici lasted 4.30 Heated with Kensen lamp very hot pegged up slowly revened count follock clamp crean you then over 2 hours below 10 cp run rother queck up to high cp pull) France work Eary clarps clean fit ship globe clean

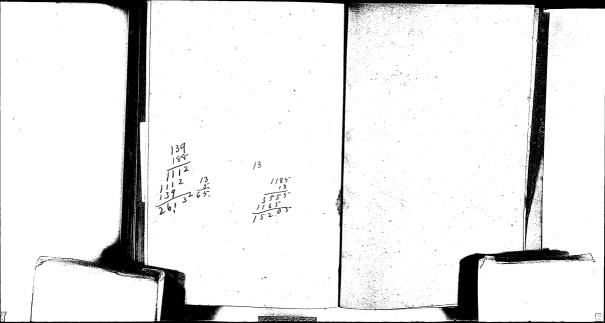
Same as/53 fil ship globe clean. Clamps clean

fol shing one clamp clean other hand colored globe clean fil delated anealy touching glan J. J. O. O. H 9/7/86 103 V- amp- Res- 41lls - lamps Q.P. (a.C. P. Mumbi lastet 280. for by block - globe too black for life - me class clam both all duty 156 — Same as 153 globe clean fil shing Clamps clean

Danie - 153 globe chen fil ohen clery. Clear j. J. M. Vamp - Ac - Tills - with Sin @ C.D 102-16-132-3362-9.82-157" 16 131-112-114-6500-5.08-406 .. 80 set 40 - 120 - 275 1 80 - 52 - 42 Munch - Cashed 500 Vinyblock



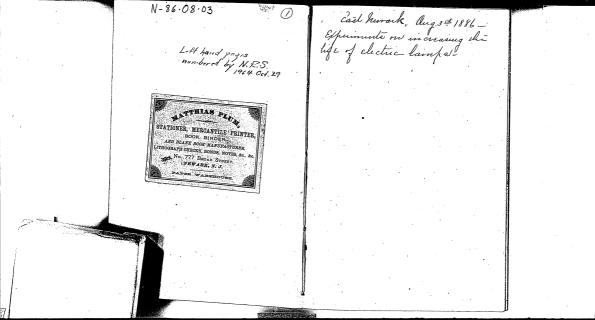




Lamp Factory Notebook, N-86-08-03

This notebook covers the period August-September 1886. The entries are by Edison, Mina Edison, and John F. Ott. The book contains notes, drawings, and calculations relating to lamp experiments. The lamps are numbered 1 through 80. The lamps are numbered 1 through 80. The lamps are numbered 1 through 80. The lamp seems of the lamp seem

Blank pages not filmed: 39-40, 47-48, 73-74, 203.



Lamp ho. 1- 1 7 000 101 Cleaned with bickomale Potash and sulphune acid hot, weenched cernal times with ordinary water, there coated internally mit Glacial phosphoice acid ite a delute solution of water, the water being evaporated Learning a their file of trains hauthacid - The lamp was there exhausted and heated with tecrosene lamp, high Facus oftained, vacuoun broken, lamp taken ff - there hut on pursel again - Bioline on the pump by accident-Mina Edison

Lamb ho. 2 -Lame as laund number 1-except not previously extrausted Water kept coming off for a half an how and was decomposed by the filiant which was only allowed to burn for a short pedioa Finally got soled tube unte blimber about eighty candle Tinte tenosure lauch burning - He globe was my blue showing strong much This hump had me cury themme with into the phosphoric tube and was not will cleaned - One I the clamps melted The earlying action tung myching horbably due to the great amount muching vapor! Lamporalis - Thous slight tinge hartly off of the negative side

Trashed canfully north bichroude 67 - 169 - 3318 - 9.94 and Son hot brashed well mite common mater - Dried on hand dies - no phospores files inside 80 - 78 - 64 - 54 One lamp maily milted Af I laup- Started, at 1.136at 80 C. P. shaules hot. Heating bull with keresure lamp Minutes lasted 195 Perfectly colid tube at 1.19- The pulup lis a muniber 13 - Bringing to dull red, only broke tube dight Fall yellow it broke considerably On High current breaking raster Small. Irhur oxide of the clamps mis reduced large quantities. gas came It instantly. Tubl could not be birken at 1. 30allowed the lamb to bum for townstyminalis , after the soled like was obtained. The holes of this lamp were reversed to reduce the oxide on book clamps. Lamp my the, large quantity of much districted, Stime many all, from the negative side durily

Lamp Iso. 3 communed - ang 3/16 himity munities burning - Buth minutes lasted 175

and sulfhurous acid (80,) - brashe will in common water, exhausted noticed my little and came got colid tube - at high meon discurse and clear tube the claup me not deskidiged - Filiment contacted badly- after not being to break tube broke vacuum Took lamp off & filled partically mote gasoline but it tack on punch instract dessus it out, only heated lamb elightly, the clime was not off cirtus side - Current was worked - did not keep lamp at high incandescence over three Pul it on pump at high micon descure - gas keeps coming off sh y probably water that went in nint the gasoline - true little blue in globe but blue hough to clause Clamps only partially cleaned

The macung manor sphears to much more on large pump than ow single listing bottle! probably due to churing action of so large body of mercuy & Small spectroscope shows Ha & H. noticed shal notmohstanding H. if does not reduce the blackening of the clamps - no CO lines I Hydrocarbon lines visible - small quartity of gas clearly comes off- File ment ling Turning about 40 Karapa candles for 20 minutes - Clampsappear to be getting redish under influence high current - In scaling it off Sucked in and vacuum bursted. although the lamp has been burning HONDO Candles for three quarters fale home the shine has not been taken It social the clamps have a slight chocolate color; while I was seating it small fine him heads were still coming down in the mercuy libe and the violet persistently change

Hashed by bichromate and SOH, well unsed in common water - Care was taken to allows Son to touch the filiment or clamps, it was also a shonger solution. Surprisingly small amount of air came out a quick racume na Atamed and scarcely any aje came out on the high current of these was no blue at the claud but the globe Exceedingly blue with macun rapor after aftaining a good racum an sint being able to bleak up the lube I insuned a atmosphere of gasoline in the lamp fore from moisture by surrounding the street and socket of the lamp with a shouge caluated white gasoline and their pulled the chin gradually and birke the gacum The gasoline rapor from the sportinge ushing into the oacumu nestead ar . Ofter gasolin passed glybe my blue but no blue at the claup

Continuation Lamp & o 5. not be broken up by heating wither carbon - allowed to um about fire minutes at thirty candlessealed Af . Clamps only moderate hight slobe not blackened. Shine untouched - Carbownil much distorted a 76 76 eller It busted, or rather oxidized when Set up a pump room probably due. to suction of glass in sealing off

Tamp N% 6 mashed with bechounde of 804 canfully rinsed - Dried on drier and put on pump- Sol vacuum my considerable of air on lighting Land my blue from Ha Japor Rolo wind away almost instantly - Got char tube, allowed laurp to been altogerher about o minutes at noticed shine was some what touch on negative. Reversed holes-Clamps were not hight and clear Then had shough to cup with gasolin and troke racum obtained quickly a racum which was scarcely broken up by heating sealed If I Certain part of glob slightly winted black darke the shind seems now to be Equal but solvery great a K Keller

V- amp - Ris - Fills - lamps O.D. HB - M.R. @CD 99- 86- 124- 3504 - 9.42- 157 " 16 128-116- 110-6570- 0:08-402 . 80 not - 30 70 130 250 625 900 - 1115 -80 - 70 - 64 - 50 - 06 - 30 - 29 Mumber Cashed 1175-Filment & bulb moderately black or brownish black (10) the color is not pure black - vibrates good, Inotice a few spots of plan autydride on weede of bulb - probably flow up. into lamp when brake vacuum, Where phasauly is there is no Mackey. Clamps dull,

Cleaned nich bulinomate 4504 Lamp 9% 7then north distilled water, hepted athis lamp is burning all right it must have been the part leading to the Extraustra side that sucked in and not the lamp end afthe Stem globe venyblock - pino Block -

Lamp N. 8 - Joth Rug of of Mason Cleaned north Bichional of SO 4 there north distilled water . Their died and filled mit a few lumps of khosphoric anhydride in the bulk-Hung for long time on the pumps -Remed the currents to diment my much distorted, Champs clean, shim only elightly taken If find one side Bund at about forty candles for a half an um - Phosphore many all milted and raw ow the globe 136 -1.05 - 129- 6317-5.25-80 - 35 - 28 - 24 Filled note blue hage at so mine. Here on + clamps + claus Hackened arc'd at 170 murules -Do, for all globes having phas anhy in

Enducy of phonoaly and a got in so and to give off water a monet quarty scarce of my blockery

Channel the same and orker Chaned with Bichonede and SOH their nich distilled water, Exhausted on humb - them taken off by noing sponge + gasoline, heated of gasoline sloved to me into lamps to clamps, theme put on later for most sponge saturated with Jasoline, put half thinkle Jule A Phosphorie aubydide in bull I water - Reextransted, Stime shallt If one side - Filement distorted Photophinic did not mill but forolate ized in the small and I the globe. 9- auch- Res- Fittes -101 - .74 - 136 - 3318 -

Cleaned Bichiomale & 50, 18 racum, broke it through of Saturated with gasoline, put liquid gasoline in to get water out of Clambs - Rienhausted and the books gacum shrough springe, then put serval lumps phos. an hydride They did not stick at all to believe Shoring us mater - Pail on pump, Exhausted, heated lamp slightly morte known lamp - it vololitized Phos. antry . - Sincle racum, after getting solid tube lighting filment Scarcely furke tute, on revising it didnot bake tube - no mercung the + blue on clamps instantly disappear 136 - 1.00 - 136 - 6017 - 5:48 - 438 .. 80 are'd in 110 min

Laur nº 11 1 5 0th aug. 5/86 Cleaned lamp with Bichomale & Got racum, tooke it strongle Shone calitated inthe Gasolii Put liquid gas of the to get water out of clamps - Reex hausted there put served humps thos. Queles dide in globe - they did not stick at all to globe shoring no mote Put on hump, Eshausted not heated north knosine lamp - Putty quick racum - after getting soled lite befored bamp elighting filment scarcely birke lite I our remains it didn't break like - no muculi Hur of blue on clamps instantly disaphraned - Don't seem to be any gas come Is when Jeliment was heater to high incanderence - The heal of the filment rolotelized the Phos. The motant this look place the gas seased to come out the full this presumably slims that unintestanding the presendes

there is natur gapor- But the intotilized Phos. instantly com buses in the Book sides of Tiliment -118- 5751- 5.74-459 . 80 Filled with How Hage acid in 25 minutes

Minia Edison and SOH - There with distilled water broke through with Springe saturated with gasoline. out I claube - Reschausted. rke it mit show then buil surpriste this Phosphoric an hydride in and a little in tube. The shine is my slightly taken off and seem to De equal on both sides - Truy little gas came off revuse the current one clamp chan it other ash color -Hu to liment straight a slight palisance at the top of the globe of the phosphoric an hydride axxxeller

brashed with beckermate + 50 unsed with common water afterna distilled nater. Clamps allows to remain soaking for 1/2 are hour in distilled natur; but not died but heated hat and but on hung bulb due ated with known lamp while exhausting. Broke vacuum with sponge salmated with gasoline + put it on pump with cold water reket got nartur quick racu blobe fras ony total blue wite Hq. notinitistanding water jacket probably due to pump being conducted with super time one day before use of cold water Small sheltiscope showed Hgt Latter Luble, Gilement ney men distorted. Browned on one side by Electrical earning - Bulb slight tuited - Clambs clean - Didn review aurent

minute lasted 110

Mina Edison 1.50th aug. 6/8 Cleaned nist Bechomas and SO4 - Common water and the distilled - Put on water sacket pump, still sleves considerable Ho but not as much as previously. Scaled spark gauge off- Use caston 20 minutes on duer; true consider able gas comes off when Geliment brought sep - Plenty of Co. I row decomposition of nation - Reversed holes and worked Ilmust so tube un broken; Broke Facurer through gasoline sponge but did not take lauch off-run for another vacuum Globe quite there wirte Hg. - Couldn't work halo If clamps- Carton little distorted - Considerably burned on me side of filiment I Clamps clean - Lasted 145 um Carbon not very Hock

trashed wirt Bichiomate & SO there water afterwards in distille mater - Dried on dien - Peil on ugular pump - Pil in few hice Chloride Calciume racum - Quite blue in not mymuch air. Here came clamber easily - Chloride Calcin alshingle I heated it strongly with knosine lamp - Filement neglittle distrited - one side slightly frame Clamps clean -V- amp- Res - Tolles, lamps c.O. Q. C.D 100- 41-140-3141- 10.52-168. 16

Lall black brown - clamps clean Trashed with Bichromette & SOH -Vibration feliment good. Shade of block Then common water afternaids Less brown than NO. 6 distilled water - Direct in a Chloride Calcium, put un bult. Put on water jacket pump - Penny tad, hoke vacuum through gas dine sponge - puil on regular fund Frobale Filiant little distate bromed on one side - clamps chan Reversed current - Blue in glob then halo difficult to get Setup so ared in 20 min

Mina Edison tun common water afterwards distilled water - Dried in Dries - chloride Calcium huit in bult- Hour housed in some gasoline, emptied it and hut on regular pump. Halo hung n clamps, couldn't work off - quite Hue in globe - Clean tube, heated Chloride Calcium mot kensen but not after Jeliment, was lighted -Shine OK no forth - burned lauch 10 min. 40 candles; Clamps very chair - Globe clear - chloride Calcin didn't stick to Globe his in the

Mina Edison dips of strong Sulphunce acid put in bill - Pet in regular pumph-Ordesed quickly on lighting

Mina Edison -Evashed with billiomale and SO 4 hun common natur afternande dis tilled natur - Died no dier - Lung Canalic Ratach hul in bull it and regular from and heated by knosine lamp, so water is durin If Has + meade anleydems On heating Tiliment qual deal of gas comes off - Int muy blue in gl Facuum oftamed Suickly Bost clamps got clean on mening file muit to 30 CP- peculiar hal around and clambol of circular mud small part of globe - Bruging it up high threer out large quantit I gas - after heating filiment Some what hearts of flue in bobe - Brught ament up so clamps Try much finned on me side to iliment and much distorted claups exceedingly clear - Ou current clamps got exceedingly and large quadtities of air

moth the has reduced it to most metallice state, about 50 milligrams of metal with good histie shows my globe-3 cande - lasted 30 minutes went up in resistance winderly globe untinted februart deadblook.

trashed with Bichontale + SO. their common natur afternacda distilled water - Dried on der Clean glassy glacial phosphoric acid 1/2 Printle Jul put in glo Jamp put ow regular pumpand dacial metted which it does with disticulti by known lamp bolil. bring exhausted clamps cleaned theresilve while heating the Glacea The Islacials further, then mell's to glass + elighthe rotolilises, encytain Erry time Ihre Illiment lite quickly gets solid apparentt showing glacial gets that absorbs hurdelet - Blue goes of Easily Ordinary amount of blice in g One clamps putty clean when gruy - Filewent pretty straight

V- amp- Res- Filts - tamps C.D. 189- 18, 12 - 18, 12 - 18, 12 - 18, 12 - 18, 12 - 18, 18 130 -1.10 - 119 - 6326 - 3:22 - 418 10- 40-32-29-30 Close, deep the on + clamp. Munilis Packed 320 Bulb not blackened - filment very black - pieces of filiment on side of bulb - one clamp dead black - slight brown deposit in one or two spots

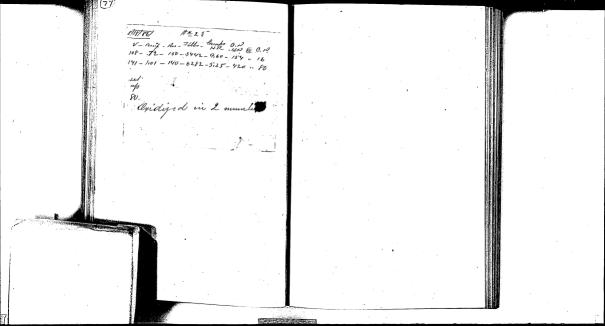
no water facket pump - This lamp was not died, immine gran A water giren off soit gare Co enny Time I heated Fliment - ho merchy Shown in small spectroscope but Exceedingly small strong carbon acid Co in Idalo- In blue in globe in it any ruy faint - Couldil act a sacurdar - burned it for a while and had to take it off - Put on a chand and died laly - The Idiment of lamp taken of

Mina Edison Hashed mote Bechomate distilled water - Pound gasolin in and them put on regular pump Lighted filiment and in it most unstantly to oo candles hely like was quite solid - Large quantitie fair came wit probably due to H Grown decomposition of the gasoline Even after burning Low are thous my Since him heads I die came off-Scaled it off alshough microscope air bubbles coming off - Globe tinted Carton browned and and side - after 24 hours filiment rebiatio 1/4 face wich and comes to rest in 45 seconds V-amp_ Res- Fells_ lamps c. D

Mina Edison Vibration good - globes very little blackened It has a brown appoint hashed with Bedionale & SO, there common water afterwards distilled water - Martin cleaned lamp But it on jacket pump to lake the place of ho 21- Filment pridiged and blackened badly shown water - The Chloride Calcium uno for a dier in this pump shows no signe of mater - Sto photosty no good and plus anhydride is ne -

Grashed Bichomate and So, there common water afterwards distilled water - Died unt dier - Putthunble Jul of Carbonale Potassium in globe - Gol racum heated KCO. gate off lots of gas heated filiment globe my blue with mercury so strong could scarcely see Co, with thate spectroscope - Stopped heating KCO, when it ceases giving off gas! Got adis tube - burned lamp gule high - 80CP. for 10 or 15 min. Remed durunto. Clamps clean- Shine my drange Say don't seem to be taken off - In the de clamps blobe clear - after 24 lus. Silment or realis 1/2 comes to rest

Muia Edwar In A Force ang 9/86 Washed with Bichromate and SOM there common value - afterwards distilled water - Duid on dies -Put ow ugular hump got vac broke it and took It lamp. took smaller tube and ful plus phonic autisdide down thinigh it to bottom of the globe lampan little got on side of the globe. Heat globe to make it blicke to bottom Pail it on regular pumpt - Heated this with belowing for sireal mi gently got solid tible and broke it Grond time to time instantly pull thing raw it for so minutes white add tube - no Kerosene or current - The hit on aureil and broke like, my lite air comes out each time - allowed it to me 20 minutes, no current, there couldn't break it - Revused current-Lit it new 10 mins at 50 CP. - Couldnot busk tube let it um



Son there common water, afternaids mite distilled water. Dried mildres Put like down and forced a small quantily, of the size of a hea, of Phos. an hydride to fottom little strick to the side of the globe Then heated slobe to make Phos. aubigainde Etick to the bottom I the lamp - Put it on trater asket himp- This bamp had some Phose. an hydride pu on the chloride Color Heating lamp assetty with Kerosene lamp - Keep it exhausting while es heating. Brought-Carbon to dullist red for 1/2, min. Keep 154 peg in on 2 nd current for 10 min Heated for 1/2 hour with Kewsene mit solid like to give plenty chance for Phrs. anhydride globe to absorb the water out The small piece of Phrs. anhifdus dropped down partly in side globe

in full tube - When it become visua = probably some bolfatilised = then brought lauf up quickly to 16 cand and disconnected- considerable sin came of . Then heated it to 80 could from considerable air came off. The globe is very blue from mercuny rapor; where did it come from? Can't al rid of Hy blue in the Globe - Ile very strong, Can't buck tube, allowed it to burn 18 muntes at 80 candle power, sealed off-Slobe slightly tinted, filiment I homed book sides - Very slight Polatilization - Phrs. anhydride in bottom of the Globe - Claup dirtyafter 24 hours biliment ribiation and comes to rest in one second Leal cracked.

Mina Edison Tamp 8% 27 1. J. 1. trashed and of with Bechromate and SO, there with common water, afterwards distilled water Died on die for 3/4 Jan hour. I then with Center titbe put 1/2 though full of Pline. anhydride et bottom. I the lamp - home touched sides-Just little bit got moide harts be-I firem the clamps - But in long The and got most of it off - Heated lamp with Knowing to soften and stick Whos anhydride to glass so it wouldn't drop down - Roll it on regular hunch with tecrosine Lamp under He bult - It got a colid the gry quickly. On Just current 4@ o' plugs less than ud and keep pump gling with solid tate - this Current and Kerosene for 1/2 au hour. Rutil- m second peg at 3. 26 pm It did not break title but small fin heads are coming dome time but few in member as unning gradually to frush

gas came If - But inside minute it all went and could not break tube sun by severals - be there was time are and not water Shine all right - Globe my Hue, us halo - Samp Elean - Filiant much bent- clamps no clean - Phos. an hydride strick to tottom not would mult on sides - after 24 has filment in hate 1/6 and comes to ust inside of a accords. Seal cracks

General Experiments -Cabonate and Biction Imale duy, ground up with pyrogallic acid, about oxygen from the air, use this in Carbonali better than Ri Cal Phos. antigdide can be kept and moulded in any shape under gasoline and If come almost any Hydro carbon Tested clean lamps after going himgle washing with Bichromate of Potable + SO, and distilled water Frank trace Soy, with che. Barin but second boiling and washing mite distilled Ha Ogot rid of entirely. Marciny is attacked by Eulphunt-& Potassium - Parhapo it wont be dry - Can use this substance in funde to absort Hy rapors-

Started 1150 - 2/2 lt. Hy frum Showed from po yet - tamp masked by Martin one 12th of lang. laid own led today, the 21th of lang. Inote only in had previously but masked in Bichromate & Sty, there common water, afterwards distilled; I put Phos. anhydride in Estranst like and made regular contraction both sides of it - Heated lamp while exhausting by Known Took it If at 3 o'clock worked it wh my alorly - there burned itfor an home at 80 Ch. Juli Hue in globe; Didnot unise poles. One side somewhal hommed when side my shining clamps - On side that is bromed is dull and lead colored other pretty clean - blobe ansiduant tinted in regular blotches -

Lamp Nº 28_ Lamp tested - 8/21/86 J. J. Mumilia lasted 600 Hack . Facuum good .

Learning 900 # \$ /86 J. J. O. ast Sept. 9/86 tried mining land If no vacuum Regular, there breaking vacuum and testing sides of globe for have havent file - Didnot get any But on another lamp and me off ugular but burned it for about Ab minutes at so Ch., got blacking in Hotches, this came off in film quickly with HCL. Could not dewho it with HCL and Nitre acid bigitur or on addition of Sog- On heating either there was a very hansfaunt film in Just lamp. that could not be seen which was Silica from the ask or the film is a confound formed by It 0+ the cartin, which compound is not this attacked -

Lamp 90 %. 30 Put solution of pumauganate of potash in globe and evaporated water learning a film. Rum it ugular and then allowed it to stay on fruit any hour at so ch. shout. Globe blackened in ruig conspicuous Hotches - Cutain place chomed absolutely no Hacking no cum

Lamp no 29 Som pump - Phos. anhydride my in titles and the bulk - lest racione him health it quickly, got all an and mit and them power stopped Got good raccum and sealed off. dealed one side partially by Kursine lainh -8/23/86 Lamp 29. 1- Rup - Ris - Altho-

Samp NY 31 of ofthing Edison Solution of Atros Pyrophosphate Soda - hashed with Bichomati an Es 3, there common water, afterwards distilled water them the distilled water containing the pyrophosphate_ a little solution touched cotom and clamps. Orid on dier - 13/2 pump - Jiliment slightly bromed Forth sides harring unused account. Globe elightly tinted, more near Clamps. One clamp nearly metted Slote wit so my black for the life-Rartin less than arriage - clamps clean_ Minules Parted - 6.20

Solution of nitrate aumonia washed with Bichsomate, It and so, common and distilled mate their kind so o common and distilled mate their their ke distilled mate and with the distilled mate of france D mind me disting 13/2 pinner & claiment slightly hommond on both aides, knowing surveyed commonds. Clamps mittled tried another.

Lamp No 33 common and distilled nation there distilled water containing the Chloride copper - Dried on diev. 13/2, pump - triliment my elightly blackened - Globe at First white afternands got quite the - Probably Chloride decomposed; but clear down by clamps - clamps clean, 9- auch - Rus - Fette

Lamp Ho 34 Solution sesqui- chloride chromine mite little proto chloride Chromina - brashed with Bidunnate, K and Dog, common water and distilled water after mands distilled water containing chloride chromine with little proto-Chloride Charmation - Dried on die 13/2 part league dont seem to disolve but fine pounder - Tamp bult - good vacuum, filiant slightly bronned on one side -Roused current; Clamps clean but dull - Blackened globe - and side Jihiment not dead black-Clamps clean

Lamp ho 35 g. J. out Solution perchloride of autimony in water and = Solution vartue spaliscent - Washed with Bechond Rand Sog, common nation and distilled, there distilled water con laining perchloride of antimony in walte - Daid on direr - 13/2 pung clamps clean - filiment seems me homid either side - Globe just a shade tinted - Island Stobe ordinary Hack - clamps chan - Filiment-dead black Minutes lasted 550

Lamp nº 36 Solution Glacial Phos. acid. hashed with Bichamale, Kand SO3 common and distilled water, then distilled nation containing Aslacial Phrs. acid. Dried on dien pump 18/2 - Solution got on carbon and damps - Globe clears, filimentputty shing, clamps moderatity "clean- hosting else noticeable 12/23/86/

Lauch tro 37 g. o. Oth Ept. 9/86 Solution Patassium nituite mashed with Bichroneate, Kand So, common water and distilled nation then distilled water containing Potassium intile - Dolution alland to get on larton and claups-Dried on din - 131/2 pump. acid hard to get It print Bursted -

muia Edison Lamp 38 Solution Pyro sallic said and Bicarbonate Potash - hashed wint Bishomate, K and So3, Common and distilled water there distilled water containing Pyrogelic acid and Be cartonal - Solate - Solution did not git on clamps or carbon-Died on dien - 13/2 pump -Lamp blackened as much as change it had been surring 500 minutes - due to action of I on " Pyrogallie - 4 iliment only slightly I any homed about same col Filiment - dead black -8/24/86 - Lamp 90° 38 Minutes Easted 250

Lamp 39 Latin Chloride Magnisium strong-Bashed with Bichromate - Kand SO ... common and distilled water them tistilled natur containing Chloride * thag resine - Got one clamps and carton - died on dier - Pener 131/2 the mercury pump stopped' and Plus. an hydride flow ich into I lamp - Stopped for the might- Il-I lamp stay ord pump, et 92. M. the 24th of ang. started it-up againalmost impossible to get racum resim after two hours tad, Phos. anhydride all viscous from absorbting I water, protably from chloride The expression was sufficiently to magnisium siliment - Bromed clamps, moderately clean- Islote clear except while de hosit -8/24/86/ Lamp 39-108- 15- 143- 3583- 9.21 139 -1.08 -129-6636-4.97

Lamp 40-Solution Bisulphide Carton -Umrashed laup - hut it on puny Pump stopped, Phos. an hydride humped into lamp - Let it - u main on pump but note air space all night - Started it 9.30 a. m. on 24 th of ang. Almost impossible to get racum - finally got fair me -One side of filiment burned - Globe little firmed in shoto- Plus. Ruby milted in little shots - clamps dear not absolutely our that disis bisulphide - Elobe clear - One clamp black stee clean - filiment Hack

Lamp 41. Rumashed lamp, colution Oxide magnisium, 1/2 grammedry tilunut slightly hommed - my diffe cult to get of hump - Hard to keep clamps from melting - my them Hg. 8/25/86 Minutes lasted 315

Murashed lamp -Dippur spide Barine - 1/4 gramme Birke Just me made second filiment slightly bromed on me side - Imp difficult to keep from melting Municles lasted 1075 Globe my little blackened Clamps clean got so much

Lamp 43 Humashed lamp - 1. 5.0th Islation Breat of Begrato Globe clear - Jeliment bright - my difficult to premit claups metting Muniles lasted 545 Less than ordinary black ming of glore - clamps clean - One side of filiment not dead Hack -

Lamp No 44 J. 5. 11 Sept. 9/86 Hurashed lamp - Dolution Gride of copper-Hard to get If I hump - very Here James Hg. One side of filment Slightly blackened Muniles lasted 365 Globe black pulaps above ndinary-

Lamp 45 Unde of autin my - 1/2 Gammedy almost impossible to get air not A this lamp - Partably it decomhour - clamps dean - Any disticult merenting them metting. One side Filiment browned - Blue haugs-- Bulk Ing fittle blackened filiment dead black - clamps chan-Dood Stock Minutes lasted 280

Humashed lamp - Solution anno plans Phrsphones - 1/4 gramme cums not - anna phones Phosphones Stands high heat instint cleange-Lamp works will - Phos. eticks in me place - damps my darkfiliment bright - Bulb clean -Mindes lasted 145 Filiment only homed. Globe not Alack but brown light home -

Huwashed lamp, Solution assente autimmy - 1/4 gramme dayno the in globe -Ditis fall like -Clamps dark drat-· Bult slightly truted near clamps filiment hight-Minutes lasted 100blobe my moderately Hack clamps cleanJamp nº 48 J. F. 016 Murashed lamp - Solution Sisqui oride of Lion. Emmons amound of gas comes off when histed by Kennew lacip. Clear globe - Clamps chan - and alstrongh burned high for 1/2 home took sides of filiment-chining -Muncha last 1160 Globe my Hack-Jiliment black - Clamps clear -

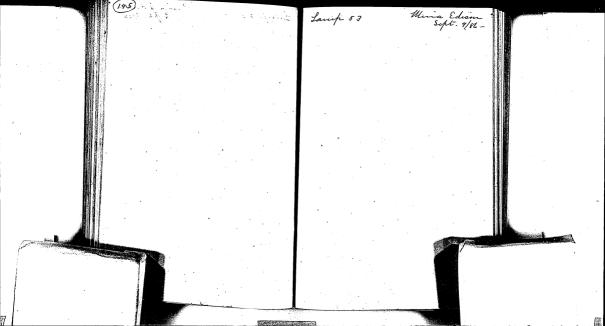
Chloride ammin - Dances and rolatilizes in lamp with Kursene laup - but dosin't huil Facuum in the least - Jilimentdead black - too much firsted no good -14.4183 Minutes lasted 60

Murashed lamp -1/2 Channe Farof dry - Solution Lodide Lead - Kerrene lamp used Erdide Lead volatilized mistrout decomposition - Clobe very gellow almost opaque - Cant-see state of filment - came of rac - my Minutes lasted 70.

Humashed laup -Solution Feluvide Calcium me side - clamps clean - Globe chair - Don't work will on pump-10.01-Minutes lasted 820. Store only little blackened Bist yet except the 2100 minute lawy There are shots when there is no

Lamp No 52 g. o. the Sept. 9/82-Murashed lamp -Irlution Dry puroside Banium. 1/2 granue - Heated inthe Knosine plimet OK - works will in pump Minutes lasted 075 Scarcely any Hackung globe -

27/2 washed with Bichmate K and So3, common water and distilled their distilled natur contanny It ituli Potassim solution (and sure) may be Biscilphate Carton. but think not - Jorgol to much buit filment bright - Lauf in ideaut finges man clamps-Gridized before reading could be obtained - Cracked in seal-



Lamp 54 numashed lamp - Witallie time in produce white totalle matter comes ff - my little air comes off the while except at high in candiscence there little blue my Inke splanded no pump - planet hight with sides - Carton perfect Muniles lasted 600 protty black f. J. Oth-

Mina Edison Sept. 9/86 Lamp 55 Murashed lamp - Solution acitate alumina. Gillow risdu Iste clean-clamps clean. Filiment brommed both sides distrited -8/24/16 arcid in 10 emintes

Lamp 56 Humashed Lauch. Solution Lithuage - Elle clear, fliment OK - Had to lake it It pumps norther quickly pome moderately black globe minutes lasted 140

Mina Edison Sept. 1/16 Lamp 57 Murashed lamp whiting betrate autimny - Surpossible

Lamp 5-8 Murashed lamp. Solution Chloate of Portach' - Glote Clian - one clamp Hack Other mit clean - chlorate mett Come of hard - slightone side fillment bromed at so mine deep close blue melant - arc'd in 185 min.

Tamp 59 Honrashed Camp- Solution Osalate Copper - filiment bromed. slightly on me side - buil high for 3/4 hour - globe clear - Em claud n%. 09

Lauf 60 Murashed lamp . solution Cyoxide Copper. Islote humed Considerably hard to get of -Shot in it - tifimul himsel lu side clamps chan. F- amp - Ris - Htts - Lamp CP, 137-1.05-130-6371-5,18-414080 , no black wy ellow - me side Jiliment-moderatel Minutes lasted 00-

Lamp Nº 61 Herrashed lamp - Solution Sulphunet Calain - Stoke dian - works will no pump filiment slightly bromund. F- auf Res- Alt - Jan Minutes lasted 120-Stoke slightly Hackeund -Clamps Hack-filment black-

Tamp Nº 12 Mina Edisa Edisa Sept. 9/M Rumashed Tamp solution Permanganate Polassium and - semal area formed in lamp before me jumped Busted-

Freni cy anida Potassini the filiand tadly distorted With hard to get of Parup. 4- lup - Res- Alto - List GB @ CP. Minutes tasted 14 75 Black ofthe clemps usual aunit clean - Johnson dead Hack -

tim Murashed lamp -" Irdide Potassium - Clamps clean - If salt heated note to kursene lauch work of Easy Butt clear filiment - shining This lawf returned as 54 -There being two 54 - Bil tank it is 64 - not a lit of blackening There is a light bromish Coloration like the 52 home so CP lamp Silverent Hack - Clamps midualet dean - this is wright hack and purposes due to fue Lodice gone for 72-14 56-48-Misselis lasted 106

Lauf no 18 1.0.00 writing in globe put on pump when there are 2 milligram of Lodine in Phos. Buly -Hy rlue in globe - Irdine hotally got corned up - Globe Munilis lasted 130 Slote more than odinan

Mina Edison Sept. 9/86. tamp no 66 to much make husted on

Murashed lamp -Thatim asserias Potash -Butt tuited - filiment Hackein front - hard to get H-Unintes lasted 130 filment dead Hack-

Murashed lamp - Dolution Tungstate Inda - Bult clear. Carton shining - Comes of Easy clamps clean-Minutes lasted - 1190 Lump no 69 mirashed lamp -Solution netrogenosside Sodiem Whole little titled - filiment 0 - 58 lasted 100 more than regular Hackening - clamps cleanLamp 90%, 70 Solution - mercurie oxide ancid on fund -

Dried on drier wiste head him taken off and a solution pay 20 drops A Basoline with Lodine disolved in it. Pound in lamp white hot and but on hump'. It worked my Easy, scarcely any air came of that a racume in Tur minutes, but whow allowing it to turn vaccione air can out also noticed a faint Here has on clamps although the globe was white and the from Here- Strange to say while the globe is white at righ CP. the blue halo chows muchy strong- Maybe decomposition of Delide of Mucany decomposed of there recombined clamps gradually become clean showing Einter H. or Co. Blue in globe. Clamps clian filment Shiring, Been huming 21/2 hours! at 30 daugles, Slight browning on silment but sim all in

Mina Edison Lamp Wo 71 8/26, 56 Munitis Fasted 200. Globe black more than usual for this life - One side of filiment home orter dead black - Clamps clean-

Lamp 72 Ulina Me. Edis Bichromate annuonia - Bulb dear smills up snowwasy of continuously gins If air - tiliment dead black Sumed 3/4 hours on purp -4- Reap - Rea - Htts - Lamp CP 111 - 181 - 137 - 3990 - 8.27-132 "16 142-1.12 - 127- 7050 - 4.68-374 "80 Munitis lasted 110 Lamp ordinary blackened will.

Mura M. Ediso Humashed lamp -Lamp black - Comes of rung case clamps moderately clean. Filiment chining - Blobe tinted a little probably from lamp black Little isellow in the narrow pail. the globe probably a Hydro carton from Lauch black Minutes lasted 3786 Pretty black - clamps not my clean The Hack has a yellowish caste. Think a great deal of it due to ditty effelt of moremental of the love

Mina M. Edison Lamp 74 A head put in globe Monate in possible to get bacumen - Samp dean dean dampe clean filment Minutes Partied 540 Less black than ordinary -Ishite in spote, clamps clean.

Miria U. Edison Lamp no 75 Herivashed Samp - tead Chloride Irridescent, works well on pumps my little of any Hy Hue- blobe whitered come what - Clamps clear pliment apparantly chining took sidesridescent not much blademin Uninter lasted 86.

Unwashed and undied lamp Worth 10 @ 15 Milligram Bromide Polarsium - scarely any blue-Slight blue hato - Schooly any air, works of easily. Stoke fainty opolisant - clamps clear Filiant Shining T- amp - Res - Altos - Tango - Stiack 108- .76- 144- 3600- 9.17- 144 " 16 140-1.08- 130- 6700- 4.92- 394 " 80 Minutes lasted 190 Black ylbe, clamps clean, filment dead black-

Morting in laint . Ver pump with 2 grandus - Lodine right on top Phosphoric anhydride - Cup no Hur in globe. Little whitened wear clamps - Clamps . Showed tendency to milt - Phun pliment may up about ugular - Clamps not clean - Filiment perfectly chiny, Unks off Easy. ho sir or at least hardly any, after a red head and there my little. 9- auch - Res - Fettos - Lainh 102-74-138-3350-Munites lasted 820. Bronnish Hack about regular amout. damps slightly darly - filment bright

nothing in globe but there and tot I milligram of iodine in among the Phos butydide in cup. Want to See if lamp get blue - Lamp free I blice - works of beauti July hand any air - Clamps dull from filiant chining -Municles lasted 1325 Who raster Hade - One clamp clean when Carbon Hack - Filment

Umashed lamp, Ferrougonide Potash - Belt clear - clamps chan: Filiment very slightly browned some pail one side my Burned high for one 1/2 hour. . Ish not nearly as black as it was to be for this light - tiliment died Hack - Clamps clean -T- amp-Res_ Alto - Samp - CP Minutes lasted 1930 Einte black - Filiment dead black clamps clian-

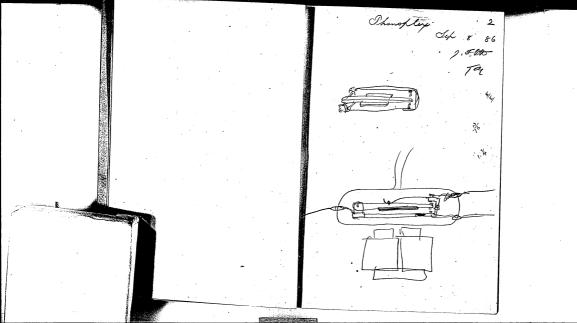
Miria Me Edison Lamp 10 -Sulphate accuronia too much water in it.

Lamp Factory Notebook, N-86-08-24

This notebook covers the period August-December 1886. The entries are by Edition and John F. Ott. The book contains notes and drawings relating to the ceign of the melicipal lump, apparatus for cathonizing and bub blowing, and the phonometric properties of the contains 20 numbered pages followed by 17 unnumbered pages. There is also one unnumbered page at the besinning of the book.

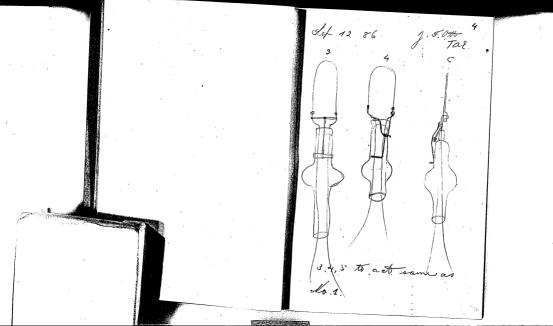
Made clamp of Capper to hold fillement, open un one side, then soldered them by means of this che, using Coffer, dron, Nickle Line Vin, Eased, Megneria, Who wied various salts, Boratic doid, Naptline, Kerosene, Carbon Bisulphide Cride Capper, mixed with lamp black, Oxide Nickle mixed with bamp black ,

Soldered Carlin fillments in clamps with Iron



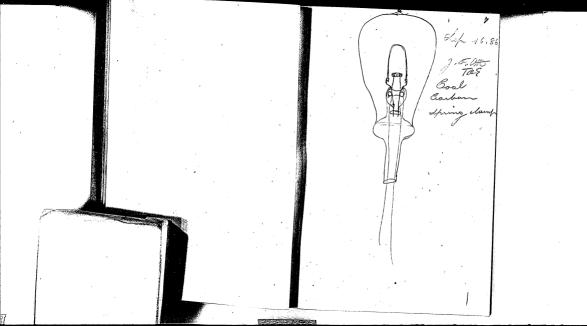
Entown -1. 5,0H Tag The wies to he plated an same three the carbon is plated an and cone them with rubber tubing_

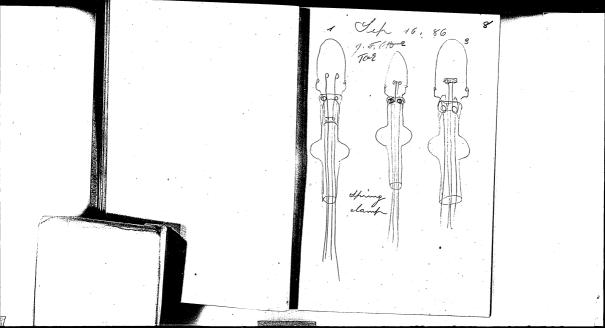
2. 5. att To be bound with high resistthat will fine under 1000 Volto and alow spring to close circuit

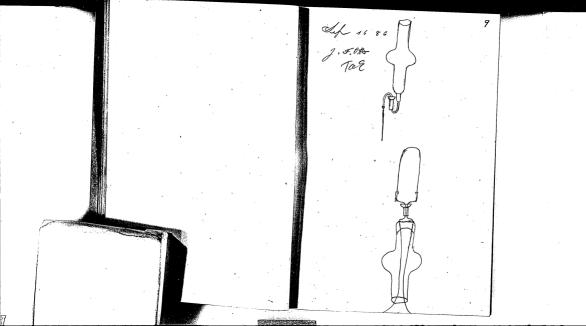


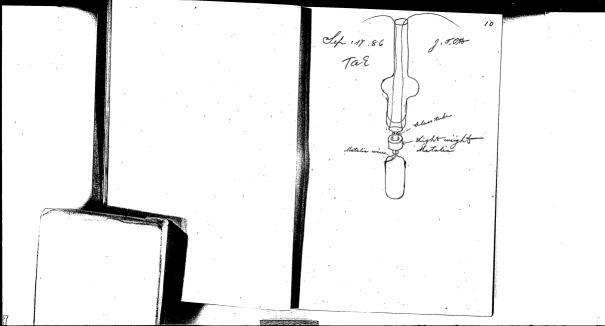
Sep 12 86 ill to diam to in depth Tested differno matetio oxides and salto Black ajide laffer over 100000 Bismuth Trioxide 11- 100.000 chritimon axide over 200,000 Eadmin axide - one 200,000 lin Bride over 200,600 Manganise Buyide over 400,000 Measured Antests Goal before Carlanizaina After heating Charcoal before heating 100,000 After heating with blow

Sep 14: 86 Cested different substance for conductivity, to be used in Minuscipal Lamp Carbonized Charchal treated with hydrocarbon deposit Luce & thick & square Carbonized two moulds Anthracité coal, Heated one mould to red heat then taken it out this coal measured 2,000, lhm She ather the same heat and left in threnty minutes then taken out This measured 500 Ohm









Leh 17.86 g. 5/100-

1.5,000 Sep. 18.86 Made small cups on end of double barl tube ran two wines through then filled them with the following compounds and measured instance Capper ande s Eram Land black recerb \$ - " - 30 Capper Ogide Capper Oxide Thurs Lamp thack recarle to 3,900 Coffee Oxide 3 Giams akmo Lamp Hack

Copper Cride & Fram Prisite Petroleum Cake Carton 14 5 6,900 Capper Cride 2 Gram Setwleum Coke Earl 1 9 21.000 Clacked to Is lower acording to heasure dep 20 86 Mixed Enffer Guide with water packed in small cup an end of double barol tube, and measured resistance Worked well

TaE Sep 20 86 Coppei Opide 1 Grom P. E. Earbon 4 11 Worked well 6 Copper Oxide J. E. Earbon Eapper Oxide 1 part Q. E. Earbon 5 th, My 7,600 " Euffer and I cham Bismuth Subcarbonat 4. this worked fair

Sed 20,86 Explu Oride , Gram Viccol Carbonato 4 This worked dain 14 Enffer Oride 1 Fram Lead Carbonato 11 13 Chromato Lead & In J. E. Earbon Left circuit afen o seconds 250,000 Red Lead 1 Fram J. E. Barban Left insult open & secondo 250,000 11. Red Lead Hode lamps dip, and spatered a greatoral then fused

Chromoto Lead J. E. Bush Engle oxide , Esquite J. E. Eianh clo & some as g Worked but made -lamps dip and spotud exquational. Made double band Tube with cut on end, filled with Eapper axide and carbon fused top shit with Anhydrous Boice deid

17

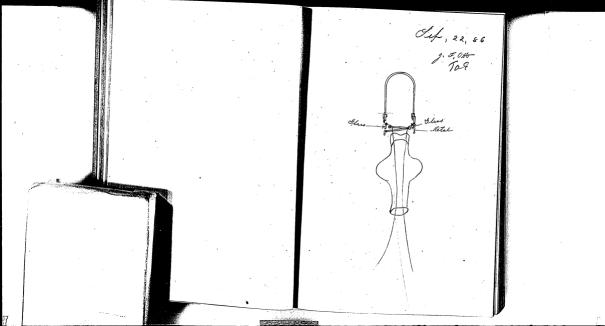
Mixed Ropper Oride 3 Frais 2. B. Carlon. Made same solution met Bryed in Burson burn hasuned 35 a This same Dayed in Drying own before sealing before sealing there I 300 there in add it heed Shrugh Ticke Mixed Enffer Oxide 5 Grams L. B, Earl but in cup dayed in Dayer This sheed to alamp in that the bre with lamp 5. X & Mixture, made two. the son through tick The measured the other This worked 34,000 very well.

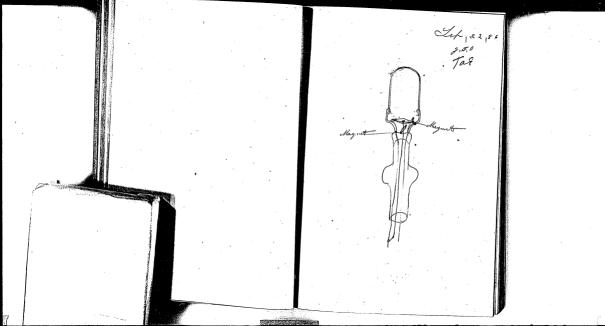
5 x 4 Mytur 4 P. 8, Carb wet dryed in dryw measured resistance One measured Ohms _ 280,000 The ather - 280,000 this drew the 160,000 change forth 5 x 4 Mixture 4 P. E. Earl wet with. Licorice wat Clinto the on 100 tollo & home 1350 cheed to made part hacke him 5 x & Mixture with Dievice moto d pot out lamp low seconds then came ut again, & hat Thomas 5 80

Rapper airde 5 Grams Tal L B Earl _____ 4 Sum Landarch Copper and Land Black Show Handarch ow 200,000 Sandorch ! Over 200,000

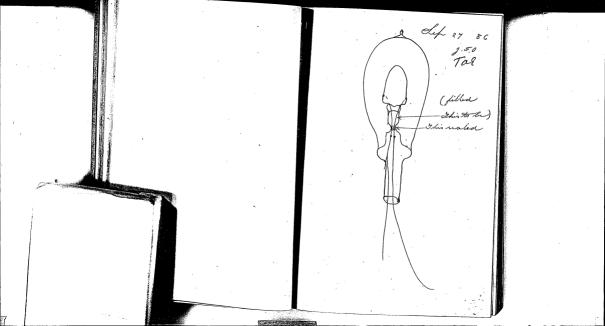
i.

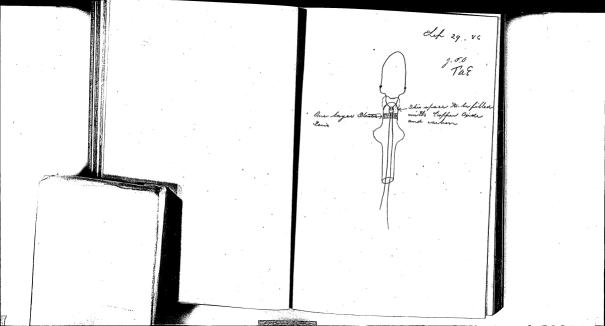
Made glass cut in place of double tube having poles spread at bottom to prevent about at that end and make their cha nearest the carbon Sep. 22,86



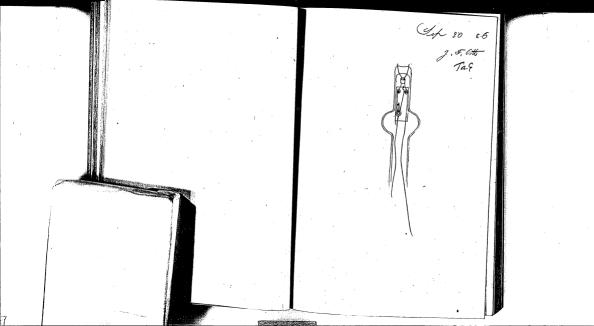


Let 22.80 J. J. 1140 Tal. with Eafler and) seached with China Source of alar with Planter Clairs

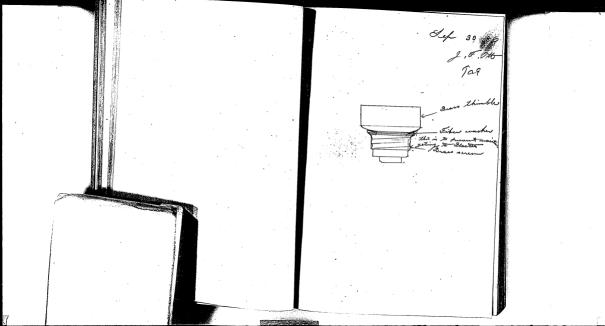


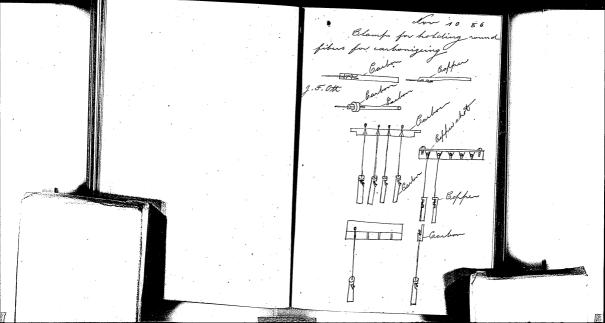


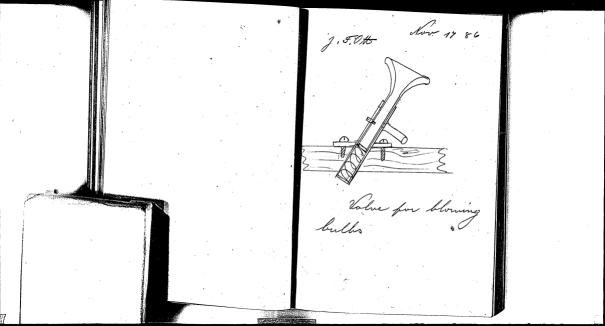
Sep 29.86 - Elass hinge Thead saturated · Elas



Sep 30,86 Tal with book ketch being a vacium in bull the terdancy is to draw the diaphiam in and book will catch and short sircuit die thus establishing the line





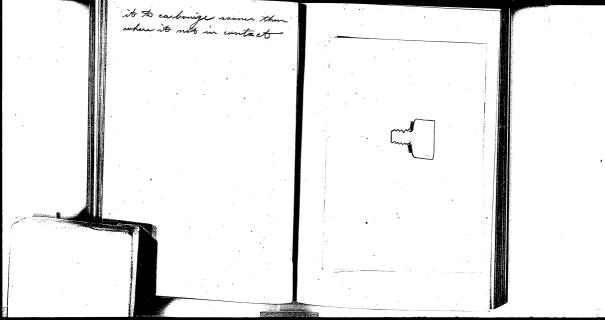


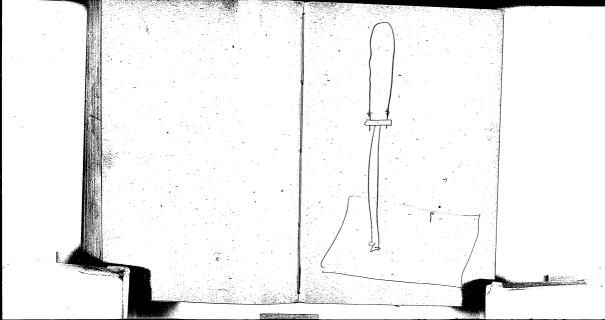
J. F. OH Mold for Earlunging. Filled with Southracite Carbon moulds

Form for puting in Barbons into mould

Compound for making Theodo for cut out Minicipal Lamp 20 68 Juls 13. Asfelt F. Eddys Lamp Black 3/8 3. Tel Lamp Black

Dec 22.86 Small prices of Carbon Stuck on inside of Earling Mould with Spanish licorice to keep fillement in cent then fill in with coal This prevents the metal from





Lamp Factory Notebook, N-86-08-25

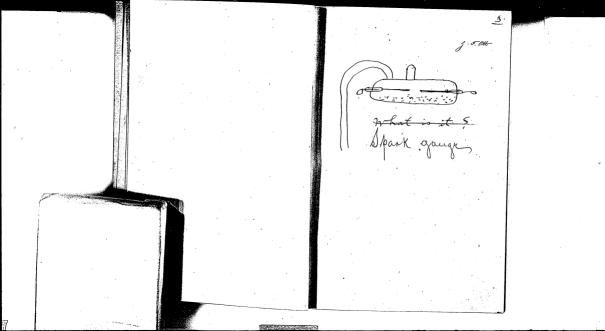
This notebook cowers the period August-October 1836. Most of the entries are by Ezra T. Gillliand. There is also one entry by Edion about telephone experiments. The notes and drawings by Gillliand concern telephones, a railway telegraph and telephone, and phonograph experiments. Included also is a saw of undated drawings, probably by John F. Ott, for a village system generator. The spine is labeled "31." The book has been used in both directions. At one end of the book are 50 numbered pages preceded by one unnumbered page. The six pages of entries at the other end of the book are unnumbered.

Blank pages not filmed: 27-50.

N-86-08-25 Jelephone Experim Try in telephone powde Platinged light chairoal -AND BLANK BOOK MANUFACTURER, Silver plated LITHOGRAPH CHECKS, BONDS, NOTES, &c., &c. No. 777 BROAD STREET. NEWARK, N. J. Silican Jellurium Calcopyrites,

Monistay ang 25 th 1886 Following is Tilison in the LD transmitter ! Ezra T. Gillilands shows my high weistener, first writing. test get no wentle - measures See also Fg. 18. 1800 - ohis - Heated the slim N. K. Sperden on short iron from to dry it and home off any organice matter that may have some in it and get a better went, mich force cups carbon batty it tacks about 1/0 to 1 hand telphon manual 10.000-ohus. Ou pyritus : in no! L.D. tacks about 1/2 as ju as Carbon - washed it in nitrie acid imported it a myle

Continued from page / autimony in # 1 LD produced my little wents about 1/2 as a hand telphone Rivistine my low about .01 ohim alloy of autimony potas Tacks about as land as haid telephone Resistance Try high -Cocoa mut Carbon on first that seems to work -better their regular anotherecte Carbon It is auch lighter then authorete carbon instrument has better weenplains



Continued from Page 2 - muraphonie quelities -Thursday ang 76 th 1886 Continue Co coa Carbon -Expurements -Coheparative might of anchrack ion Carbon, The Co coa mighte a little mon than one heef as much macamorni Cardon mights about 1/2 as much as as Cocoa and tacks about the same both Coron omacaroni thek land but to not articulate no melas aushinette. Treated the macurini Carton with supplimic and had wanted and clamin it-

Continued from page 4. dumed it, white produced a olight improvement - not your to the clandard Carbon -Trud Experience of churty formany; tal mich blage hyden jars no praftable Shouts Cail mich Conduser, no improvement = Third Zine dust no results - visio tence very high = all if the about Expression have been tried on short Curint - now furfaining attificing his upon which Expeliate nice

Continued from page 5 Tellinium - tacks nearly as mu as standard carsen it has low monstance So about \$ 1 /2 times as havry as Carbon -This is ity for the best. tacking substance on have trid get and comes the means to Standard Carbon live onake further Expurents met alhor apportus -

Freday ang 27/86 manganese peroxide no meneto -Granulated Zinc no wentto Zine is my heavy and from Conductor - treated Zine nith dulphinic ain imported its andirectivity somewhat but not its talking pralities -Tries ugular standard Cardon met platieum serap clippings might in gas guad wents tacked

Liquorice Carbon d made fine downstie Loignorie gave midem ment tacked about one half as mel as standard Tind standard Carbon mil platomen disc float in chamber no imporment anys and shaped float

Saturday ang 28th. Works good but upper deaphague Councils mith affer Elichoica monks my will but no

Consigned Chetrode the abject bring to present the son granulated material from cruping away from the center of the draphagen -This worked appendidly and is my headerly an improvement upon the regular standard fromfurther experients will be made and a long that will be made to delermine its staying qualities. to lalking qualities are puparior (as for our tests Trust forwdored Fledopar with coated with plumbago

Continual from fage 10 no mouth - Turd sago como with plumbings . talk's about same as a chand telephone Modneday Sept 1 1886 made spring of that's to determine lasting, qualities of the new compated form of Electrade found that it was somewhat longer and come down near the Draphrague which partly account for to increased landrings in lest apprenents-It shows a marked unforment how are Carbon made from ngstable

1

rigular standard carbon It is about as clean but not grute so bright Thursday Safet 2 1886 Tested carbon made of fith talks about same as hand telephone is my light so much so then when cap is jumond of me top of thousandto and when speaking in a land tone of mice the carbon nice from out of the holes in the Edichade vering up -In of an much like water aut of a fourtain on fue

Continued of un page 12 g. 5.00 /3 well consinced that light Curlon is not as good so the having or at least hing unaugh . to fall back into plantin is as to respond to respect subvations se and be thown up and held enefuld in space = holed darkon made from unported ligorice Slight suprement our domestice leguorice but not does not longare to standard Cail in Vaccum

Continued from frage 13 Dracinftion arrangement of care or leading in situe of frimay Count of coil -B B dilto for primary glas tube FF Hard rubber rings to have circin fraction in tube -E ofmy in cail for Exhaustry the min -

The quality of the auchacute Carl wend it make the Standard Telephone Carbon has been four having burn taken from the aught of coal formation for Stram purpusus Angyret procumy of hypost genally of withracte care let it be had and the graphity of contine wice

Friday Dept 30 1886 -Corrugated Electrode diship diship Corrugated Electrode and Corrugated depthronger Corrugations made to amapos

Dept 30 H 1846 Railway 7 M Experient. Aut up and tested the Edison an angement of meny a surging telephone mith cushion Contact as a suscitule- for the automotic Vabrator - It norted fust Class - another was make and forwarded to Rudo for practical test on train on this STD

7

All up as shown in the fallowing ekitches -Turne ckt

ō

At October 3th 1886 Commend work on the standard Thorograph - Clan is to make a small Compact intrument suitable for affice were It is not repreted that it will tack land but is to be made to be held to the listeners war like a thephone and to be made! to talk about as land and clien as a great thephone on a short Encent -Les to be driven by a soule motor, probably an electrical notes, and so made that it can be madily stopped and started

Cantinud from page 19 and started and backed up or unred or set back - motors to an anged to run as near gos parside a unifram exed and have a simple or comment regulating durice to bout al The quartet height of Justiction wile be to make cyclinders or or plates Containing the record interchangiable, is a tacking mond much in one machine to be transfound and improduced in another machine - although the machine will have great Commend value to if his lamet be accomplished -

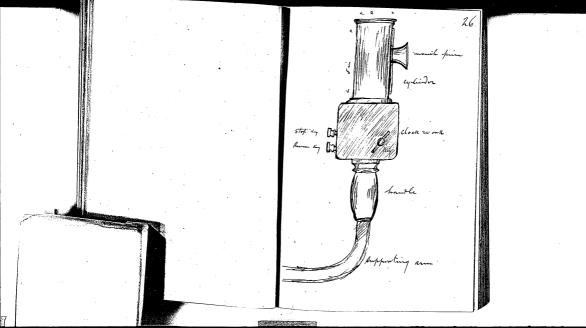
The cyclinder should be about two I much to 1 1/2 winder in direction made of glass or polished stal show to about 4 or 5 mehrs in being the and have 40 to 50 threads to the wish this wice que it a Capacity of about 10,000 wonds back on 1/2 dramater or Jim in accompressed 50 threads to inch moned be 250 with to meh of Exhadin in length, 5 in long much june # 1.2500 where to the Cylinder mich day admit 8 to 12 Words to the wich or 10.000 roods to the cylinder - I believe that diaphagus and needles or points Can be made and so cheaf and Simple that they can always be a part of the cylinder

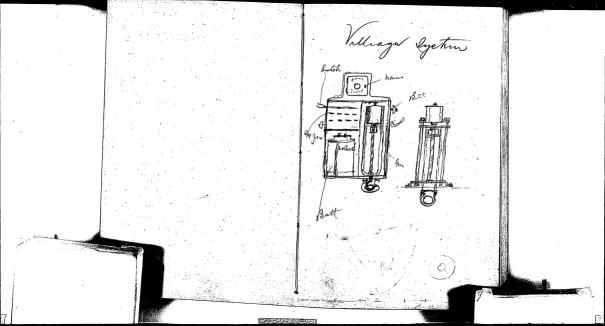
Continued from page 21 and remond from the machine mil the cyclinder and thinky me accomplish intuchangedly, as / There is no defluenty in inpeating many times the wood much "if the point and displaying air not disturbed. a cylinder its thered and draftungen - point can be the detachable portion of a machine, and the number gran and mater and all alkin parts can be contained in the stationary frant or balance of the muchanism, The motor should be lowethed through the muchan of a flexable shaft to proved the bugg or jar bring Comments to the Phonograph - This mice also make the apparatus men

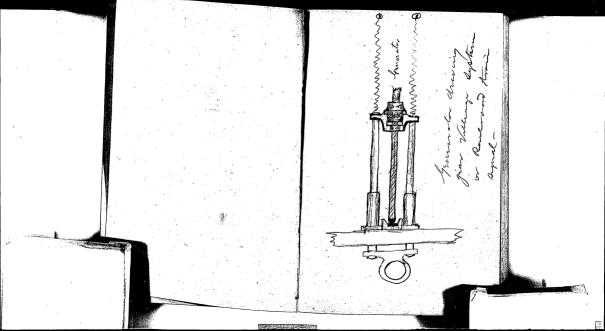
Comment to me providing to is made a sign that will admit of its being heed to the Ear to listen and to the amouth to tack to it, in case it cannot be made light enough to adout of This them a flexable speaking Tuter can be new for talking into and historing, in this event the Jaring sound of the mater wice not be as likely to interfere -The cylinder should be made of falished glass or metal and The substance that mains the most or vibration should be wither a shellar, gum or way or something of that native which can be applied mich a courch or by differ into a legion salution and allaming dry on and can be

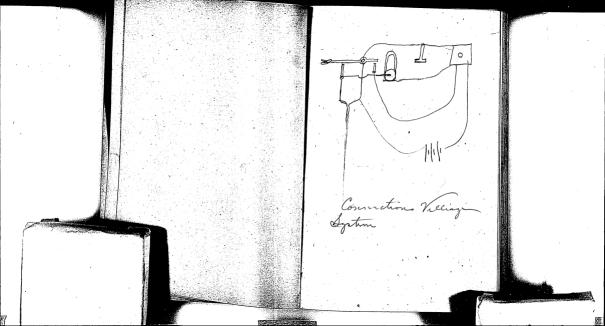
· Continued frompage 23. disales off and Thereby print any recatching or injury to the Exhauder and be theref and require so opicial skill or drives to accomplish this most important part of the work - Junes or shellnes or substances of that matin will be her likely to produce the scratching sound which has been such a divinos trouble in the new of the fail of the diaphague + mertile me made to always be Might to gether then the cylinder can be perfared by the Phonograph Company or their and formished to the customers and a mutal changed and a continuous mount divind -

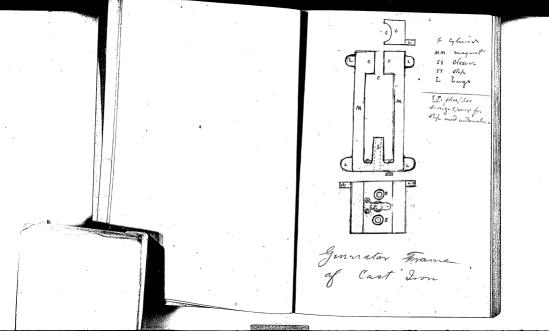
Man for cylinder deapprogram and faint seem and bearings to always to Mept together and of some has syname or actus means of Counciting it to the mater the cylinder gette its bearing on a rim or flage located at each and Which is made to enoty fit the done for of the casting which holds the mouth piece - The moud frie is made to adjust by wording it is also fitted min a dinice for lifting of when younder in to be cit back to sport four

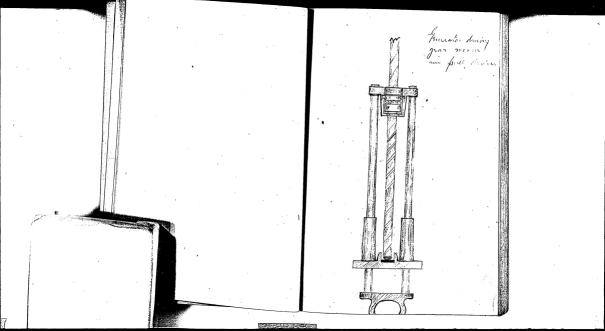












Cylinder head

Lamp Factory Notebook, N-86-10-05

This notebook covers the period October 1886. The entries are by an unknown laboratory assistant and relate to carbonization experiments for lamp filaments. The experiments are numbered 1 through 11. The spine is labeled "33." The book is unpaginated.

Experiments on Carbonizing in Exp. 1. !- : Bambro splub in sealed Tube in Hall colored with analine Violet @ Temperature of soo Tahr. (gradual nic) Carbonizing imperfect; - color penetralist about 1/2 though the solut. Object - to drive the color through the flament1. 1 - · temperature 100 Fahr Garnal my Carbonization complete.

Coxp. No. 3. Une reg. A. Jobin in realect wite, in coal tar raised to a limp, 700° Fals, - Gradual vise). Tas drive Horngh filament. Filament received good poluminary Carbonization Sent to Cartonizing Rept for Junal Carbonization as Order A.O. Oct: 7th 1888.

Twenty- four reg. A. Johns in a realld libe, in load-bar, laame as 12.3), vaised to Zamp, of 700° Fals. Hot carbonized - has driver well. fibre. List to Carbonying Left. as Order W# (12 fibro) Oct 9# 186,

Fibre in Carton Jame ammused in mobilen leads for fire (5) munity Cartonization imperfect.

One Bamboo Fibro immerced in mother lead fut below the boiling bout for five (5) minutes, -Carbonization good Oct. 9 186 Eightein Bamboo John in Jours, unmerced in as above. Lead came in around Jebrus - Jan 3 to Force 3) Eightein films in frems, same as abora, only time paper put telinine forms to keep lead out. Jair 14 to Qd:11 1/2 186

Forum Bamboo Fibra in scaled places buts, in coal law. Rand ho derip of 700 Falor; airled glove, then. saised again to 700, and high there o minutes. Jan 2 febros to Force. Oct. 11th 186

Eighlun Jihir in sealed glass who; in molasses. gradually varied to temperature of 500° Fahr, and kept there one hour Modaries found into Jobo. gave to Fore 10 Jihrs. Oct. 11# 186

15 Rag. A. Carton in realed glass it, in Coal tax: grachally roused

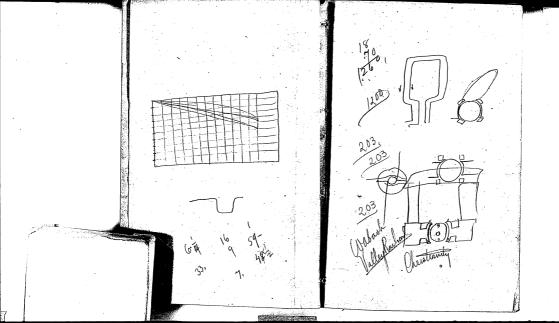
Carbonized in Lead:-Bamboo Febras in carbon box, comes with Carbonized anthracity: 1 Emperature gradually raised to multing print of lead: them raised quickly to a white head-Heliered Three Carbons to Force Oct-15th 186 In same box, subjected to same process, were some preliminary col In neither case did lead touch the filaments. Helinred two carbons to Force Oct-15# 186

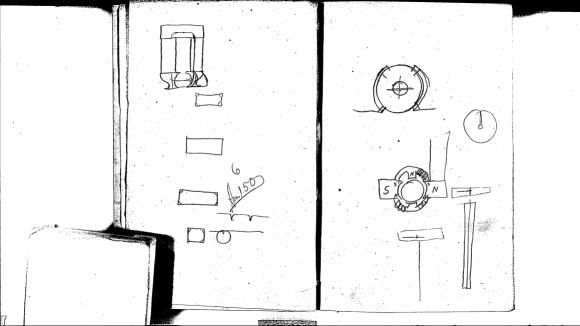
Cartonizad in Lead :-& Bamboo Fibrus, in cartulox corred with lead-filings. Temperature raised gradually TE = Quering (2) his hours, to bring it toto multing- first of tead :- then paired quickly to a white heat-D) In same box, subjected to same process were six preliminarized Hed how cartons to fines Delined to Force, Jour cartons, min through as above Oct 21st 186

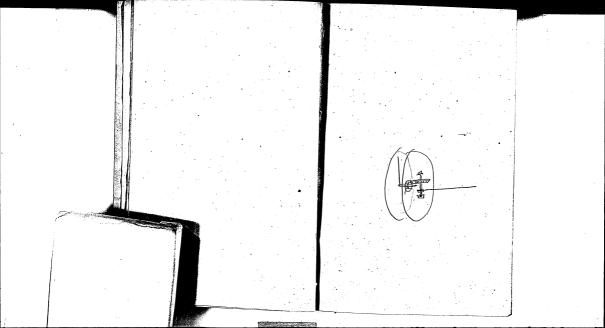
Tan arphalling + Elect Plumbas diese Tax & Molasses . A Phymba go + anthia, Coal + Plumbago

Lamp Factory Notebook, N-86-10-08

This notebook dates from October 1886. All of the technical entries are by Edison and relate to armature design and to carbon treating experiments for lamp filaments. Many of the pages were used to record the names and addresses of various suppliers. A few of these entries are in Edison's hand. The remainder are in the hand of an unknown laboratory assistant. The label on the spine has been torn and the number is missing. The book contains approximately 200 unnumbered page. Numerous pages have been torn out of the book.







Oct 8 1886 Tal -Boil 15 Carbons in strong KO Salution for one day then Goil in large quality H20 for 4 hours ohen change water again & Gail 4 hours their take out & put in heaten, dry and put in order No 20 & Goal for 3. days - Then Carbong's do the same with the AFR acid carbons now

Oct 8. 1886 Tar Wash 3 lamps in Chlorida Barum Sal weak to precip the DDy from clamps work a set up for life manera carbon + clamp. in garalere tupe another une to form on arc on clamp so asto decompose CUSBY Notrottu oxide - thunk it will remain bright oftenind

Oct 8 1886 -Use preceptated Magnesia valumma - precipilati from vary delete Dalutions so as to get them Exceedingly fruely divided -Mig the dried precipates with - 18t Sugar Salution Lecorce Gum arabio las Malanes, Honey gum Tragas press through mould not feliments. by hime unged with the above also (staked lims

Oct 8 1886 Put piece, asphalt in side cup with U like, but get voe but toff from Lamp getvac then heat as phalt, that prepare N. heat Salt of amoun nitrite colso intende myelin of Chlamont Bichonk the gwan healing N28 tpm N- put u Cup on V lube,

of a Formate or heated with Conc Soy pure CO Firm ay K heatest with 1/2 3 heated with 4 NS- 3 SO4 pure gas - care w laken as at cutam point

1886 gases to be used as residuals in Othe fit Camparsenmethed: Hyprogen Bromine, Bromohydric acid gas Phos Hydragen. Endphundlich bly dogun Schemwillit Tillwillih

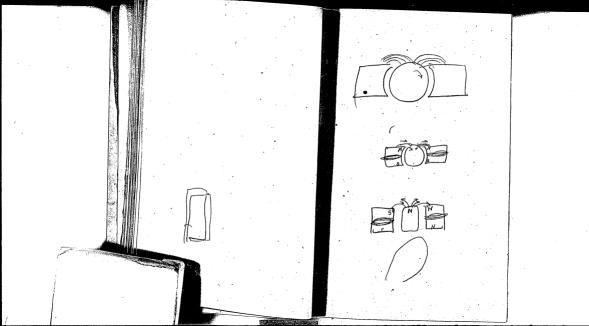
Browner Fluoride } is it gos ? Sulphur Dollands. Valil Lynn Silicon hoxaflumbe. Vuletil. Silicon Tetrofluoride gas aroune Frichlande Lynn Wagnism Charle Pattile, Wickel Chlorde gublimis Phos Trichlorde, Borling pt 7610 : Attalande Selenum. Volhle Lynd

Silican detrachlande bodo 50 C Wranium Tetrachland Vin Valelite. Wilrogen Tribromide, Yaliti. Zmcphosphidi. Hydrogen Sisicide \$45i-Phos Chlorobrombe. 6 vils. ntrons has pitric and Titanim tetrachlaide. Big o Titanim Tetrafluorde Cipa Tribromile Bron Goil go.c

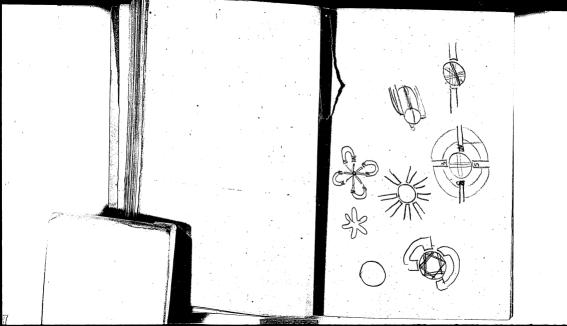
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Delican tetrabramate God 150.C Vallet heat gas flame Chlorobromide Vilian God 100 C Tetanium Chlorobromite "160 Silican Ollorofom HSICP3 Lydrogen bilico Chlonde Intano-phosocchlonde Meets 85 Silicon 9 deform HSi93 bools 220, Light Thefrunt gas Ethylene. gas actegline gas Propade. Haat Resins Merbane andre oil. Berzol Berzine amyl. Essential Oils-Ether. Creosate, Carbolicacit. Impentine Comphene





a. achard Ruela Bronne & Paris agence Generale di Electricate Passagi des Panaramas, galeries Varietes Bouldn Temple 33 33 and 33 Tende Societé anonyme de la Aluminium Boal Poisponnière 21 Paris France Anthony. Rue de Rovigo 39. en Instruments/ d'Optique Rue Pierre-Buée 2 Ateliers Ducommun



Catalogues with price hist Olata Road Bow Landon Um Reid 9 Co Linguist Zono ni Ec High st Lambeth Lordon Eng John Warner Toons Cripplegate Landon &C Fradorick Allen Toms Upper north st Peplan dond on & 21 Huncing Lane Lord EC The Dester to Wat Brown EC

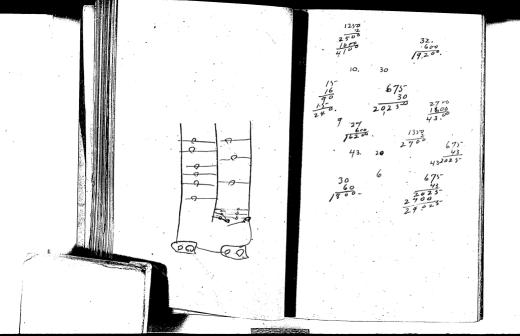
gas wilkinson Flow. Sheffield England Higgin Lloy 8 4 Co Heo Davidson Tto - Sateshead-on- Jyn Old Cartle hours Tim plate & Lanetry Carmarthenshire England

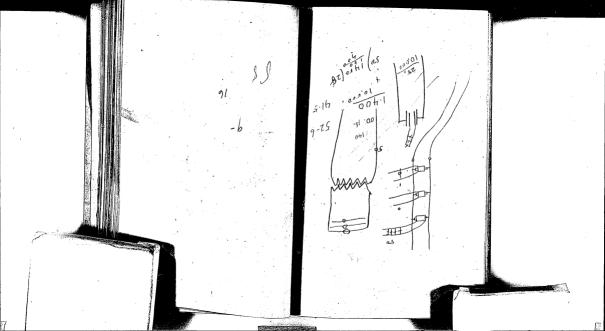
yas Mac Neill + to 25 St Enoch Square glasgon Deolton Pierre Balajat Avenue Du Prado 145 Marseiffe france Doulton for Jambeth 71
High St Jambeth 71
Augh Se Single Patent Plumbago + Crucible Co Batteries SW London Cookson Co 26 Philpot Lane EC newgastle-on-Tyne England Julieta + Co 41 moorgale St., E. C. Londow, Eng. ohn Qakey + Soms. Westminster Bridge, S.E. London, Eng. Fraser + Fraser Broskly- By- Bor. London, E. Eng. Smith, thomas & Co. Old Kint Road S. E. London Eng. Chance Bros. of Co 24 Fins Lung Circus & C. Londow, Eng.

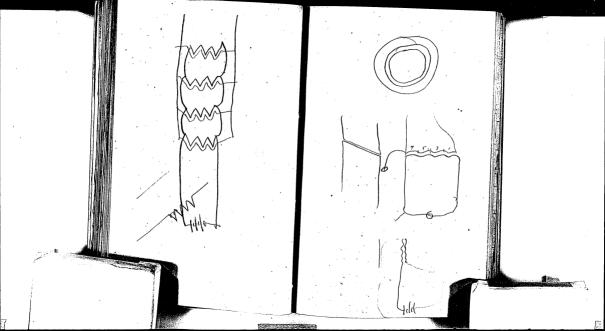
James Portell + Som Temple St. While france EC And Minds & M. London Tylin, Haymard + Co. 84 + 85 lepper Whitecross St- EC London, Eng. Lydraulic Engineering Co., 31 131 Palace Chambers, Bridge St., Bristminster S. Ir. Gondon, Eng. London, Eng. Gethardt, Rottmann co 24 Lancource, East Lane 24 farman on Lane, E. C. 33

James Hicker. 8 Hatton Barden E. C. 3 James Hughes 104 Minorica, E. 8. Loudon, Eng. Theodope Kiessler 361 Jely Road, E. C. Es. London, Eng. 4 2 Castle, Culbon. E. C. E. C. Loudow, Eng. Gustare New. 79 King Square, Gosmillet Fredrick Newton of Co. 3 That St. E. C. Robert nicholl 53 Hy oldown . M.

Pastorelli + Rapkin Hatton Saiden, E. C. alfred Sloper & Sons Sociélé des Luclieres 13/Hatton Garden, E. C. Milliam Ilone 24 Glorgestin St. N. C. 16 G. M. Steamsens Co. 9 Pancido Lane, E.C. Tis ley, Spiller or Co. 172 Bromplon Road





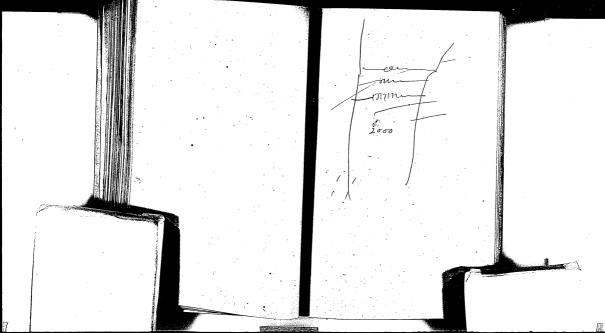


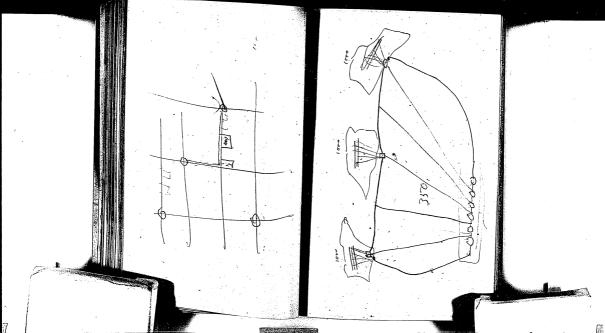
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George Bendow, 7 Co. 36 Gly Place, E. C. London. alexander Clarkson 28 Bartlets Building Hol born E. C. London. John Henry Dollmeyer 13 Blooms berry St. N. C. Londow. Joseph Daris & Co. 6 Kennington Park Road, S.E. Indow. James Sheais & Soms Bayleside Southwark London. 20/8. Regency St. S. &

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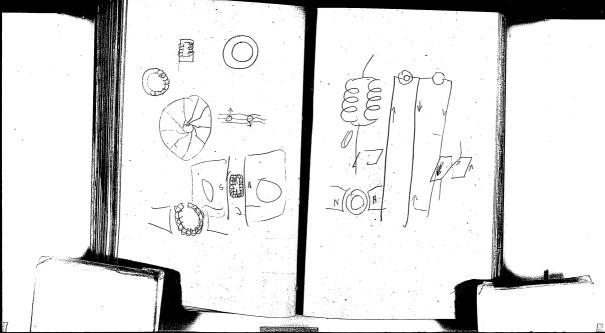


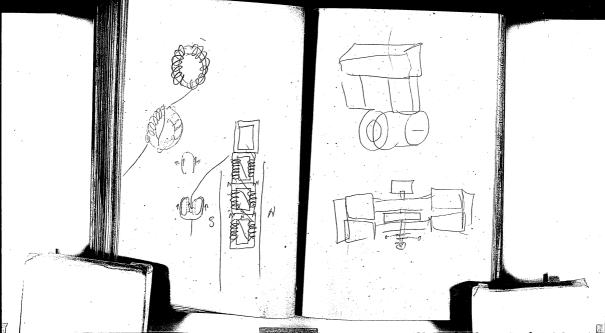


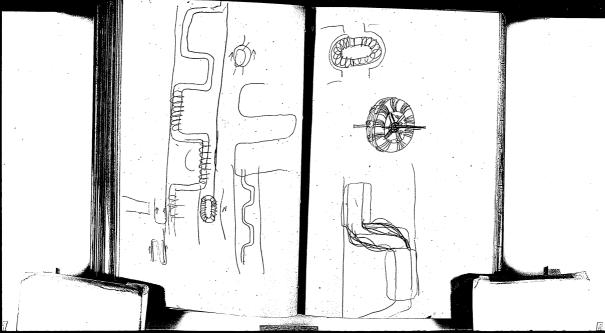
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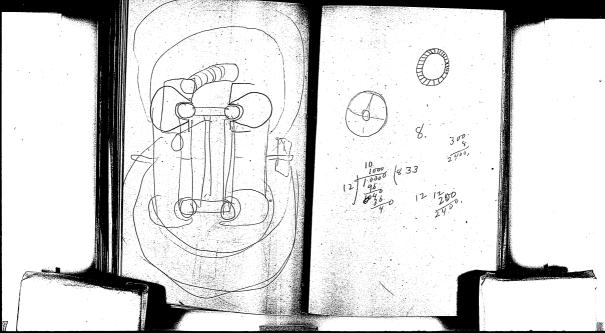
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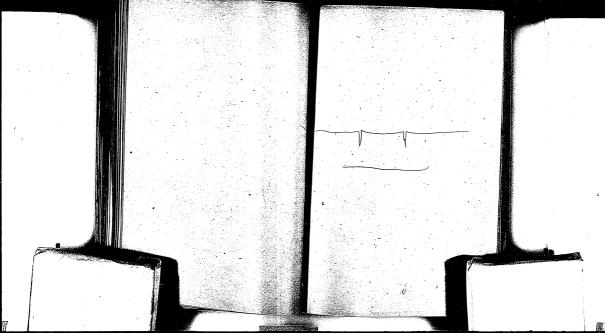
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Lewis K. Bell 56 Rine St Their Gork James R. Der Edward L. Embye 18 FEREN H. M. Everett + Cot William Goldstein 450 chercyst

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James L. Morgans + Co. 47 4 Met St. n. 1 ical Company. 161 Front St., N. Y. 240 Carl St. n.

26 Liberty St. n. l 574 Kine St. N.U. 50 Masdau, n.y. Fred. Toursaint Toursaint, Mott ave. c. 14 4# st., n William H. Trippe 87 Walker St. n. y Visscher & Halt 96 Wall St., n. y. Walton Chenistal Co. 200 Brince St., N. Y 9 Front St., n. C 549 M. 34th St Hing + Evans 1 92 William St. M

E. J. Beggs y Co 147 Maiden Lane, n. y Billinge, Claps & Co. Sane, R. G. 5 Hold St. n.y. Blocke and Rambone 15 Cedar St. N. y 66 Sixth are. Dr. E 2018.29 tt., N. Y. Dibblee and Co. 132 8 Bry , n. 4 10 PS inch St., n.

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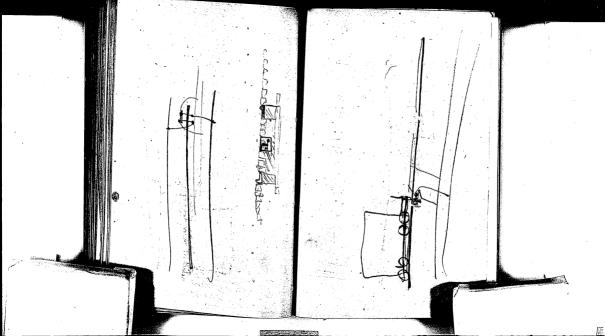
James E. Malker + Co. St. n.y. Hilliam R. Warner + Co. 33 John St. n Charles M. White + Co. 54 Maiden Lane + 29 Liber D. Dour Philliamson 1 College Place, n. y Winchestery & Co. John St. n. y. Isaac G. Aryman 142 HoratioSt. M. Hammill & Gillespie 2.40+242 Front St., n. Hilliam anderson 54 Barclay St., n. y E. Cauldwell's Son 76 Marrero St. Oscar Cheisman 74 Harren St., N. E.

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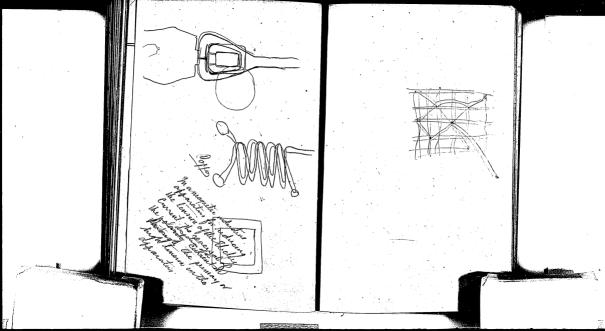
1. 73 Murray St., n. y Crystal Glass Co. 44 Murray St., n. ? Dureen, Bros. 50 maiden Lane, n. 8 Christian Gospfert are, n. Geo. a. Hammond 144 E. B'way, n. y. John Leach 60 Barclay St. n. y Theodore Higgers. 180 8. Houston St., N. Y Milliam of Milson St., n. y. 85 Harren St; n.y. Leonge My Wood ward 42 Murray St., n. y

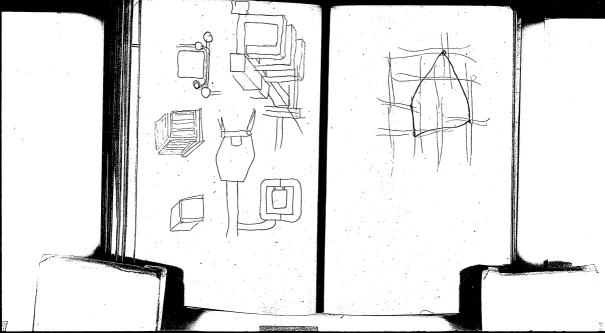
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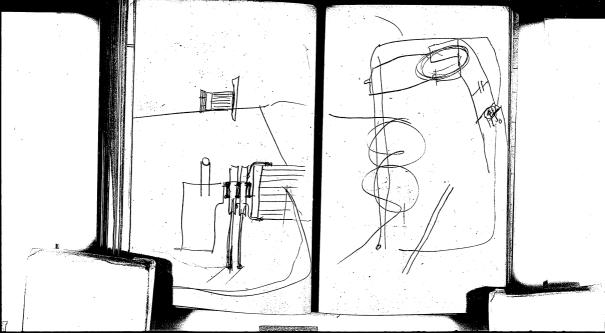
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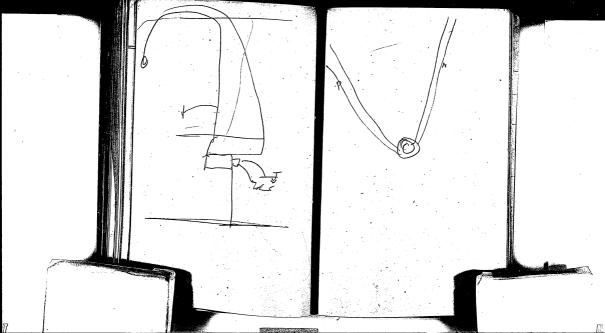


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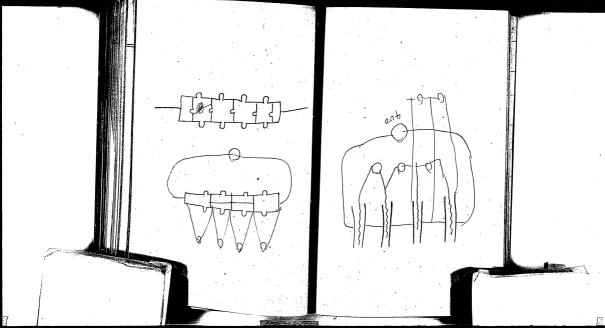


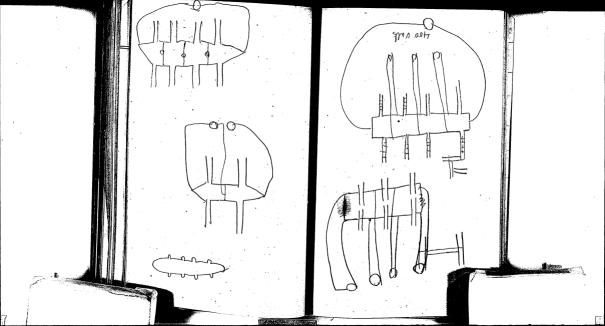




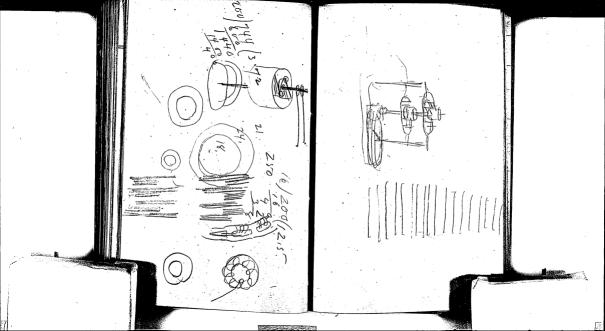


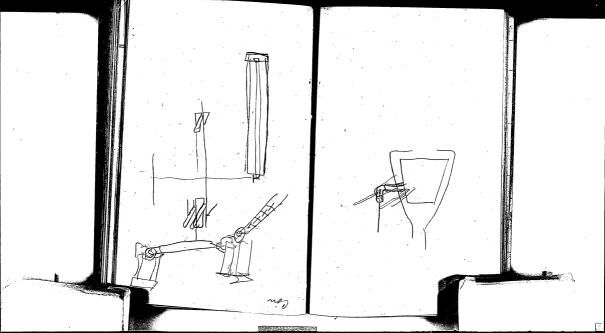
Philip Schmidt 41 Greene St., n. y. 1260 B'may, N. Y. Samuel S. Phite 767, 769 and 1300 Bray, N. y. John Backup Cherry St., N. [Cramptony Bros. 16 Rutgers Pl., n.y. R. Hoe + Co/ Grand St., n.y. Mineralized Rubber Co. 12 2 Platt St., n. y. Edmondo + Benton West St. 9.4 John Sellers & Son 9 & John St., n. 4. Williams Rupkins Sons Tyler and Finch Cedar St., M.

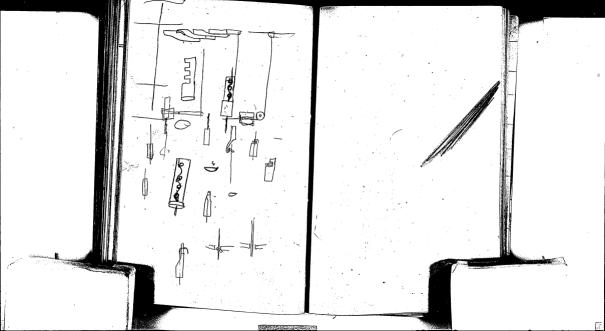


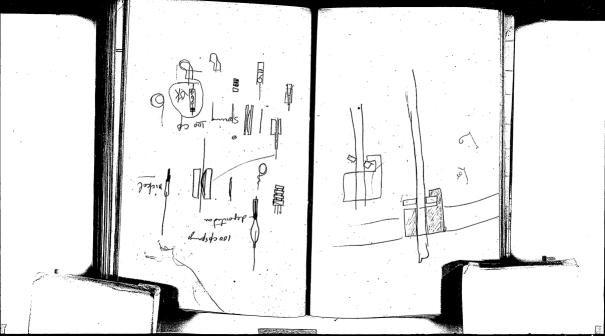


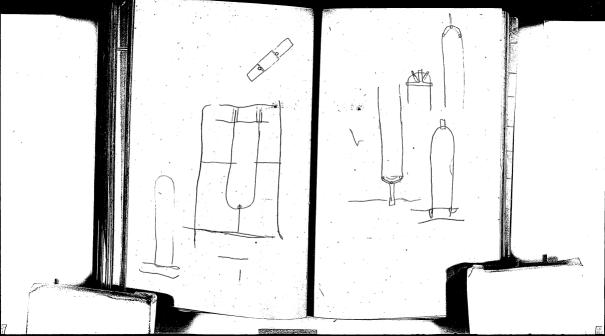
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16 Mugray + 19 Barle 19 E. Steiger 2 5- Pople Pl., n. y. E.R. Durkee & Co. rater St., n. y. Tonis C. Gillespik Fonis C. Gillespik 8. Ahltchwett, N. Y. John E. Tamson & Bro. 77 Maiden La., N. y. Fours a. Salomore St., 91

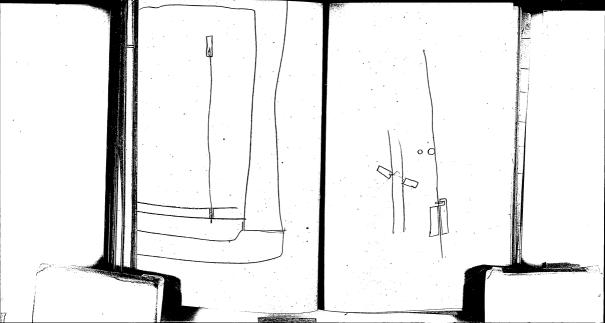


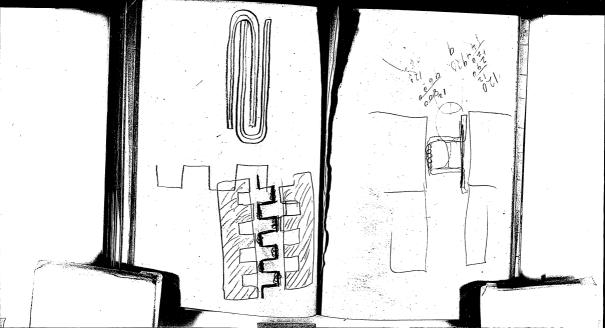


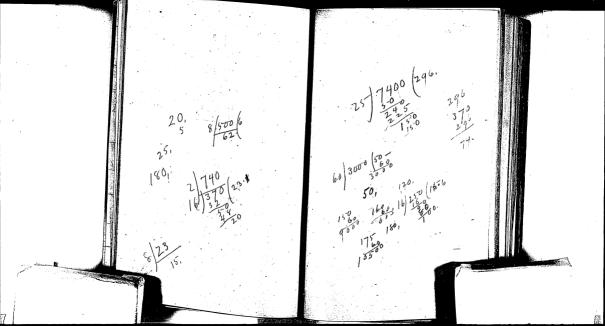


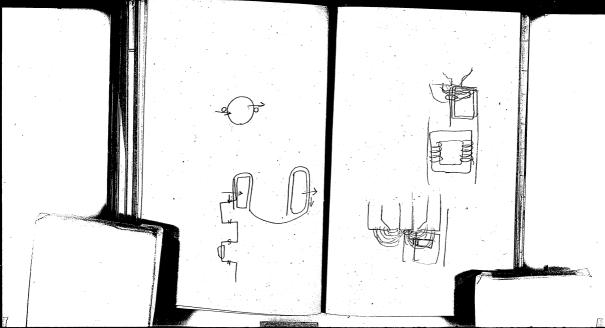


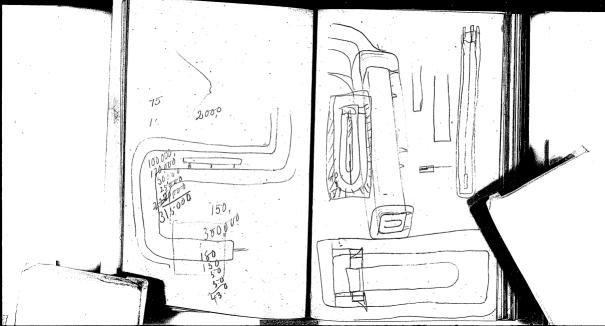


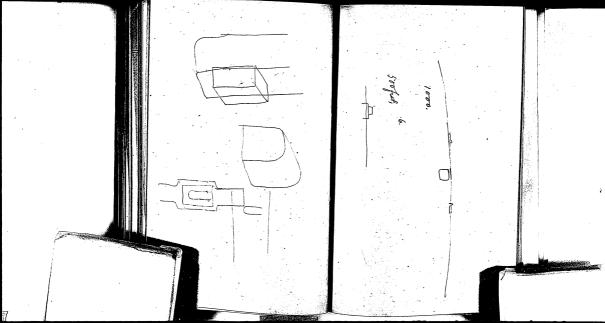








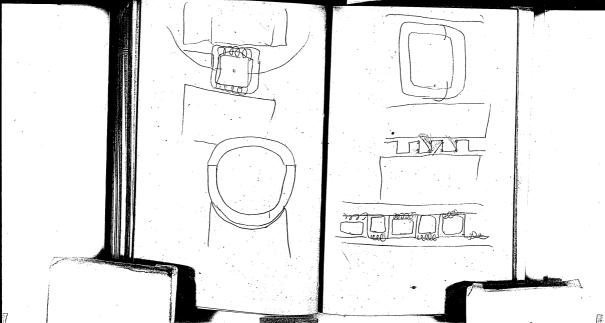


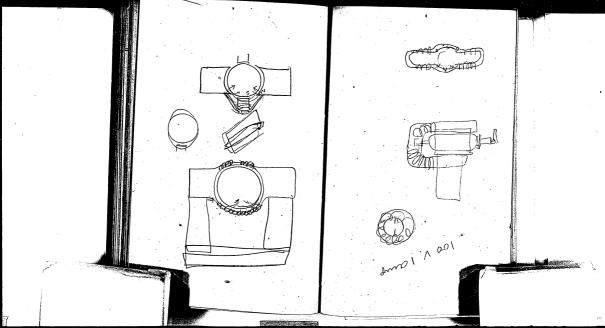


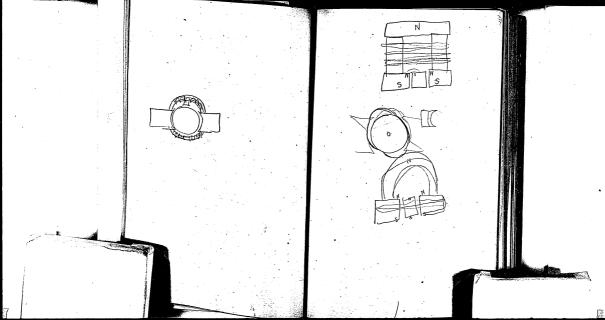
Sarah Bishofu 42 f 25 th St., N.y. alexander King + Co. 5-4/Leonard, n.y. Benj. Frox 256 Water St., n.y. Pocasset Ish Forks 9 Cliff St., n.y. William J. Arello 78 Beckman St., H. 4 C. Ir. May, Firnhaber + Co. Brown Calfric Engine Co. 5 7 Lunis St., N.y. Q. E. Roper Cherrill Co. 91 Washington St. h. y. 478 Grand St., n. 8 Etienne Gillet 10 Courtlandt St., W.

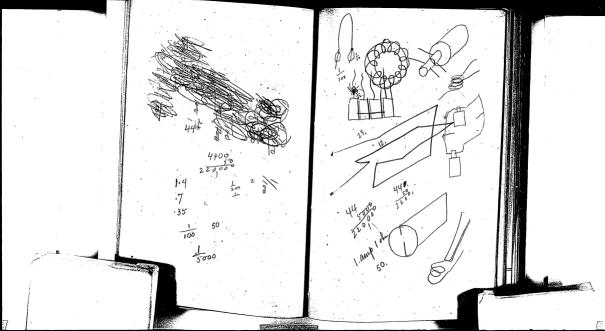
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n. y. Emelting + Refining Co. Natham + Bros. 82 Buleman + 135 9. 30 to newyork antom Heim 3/3 Gerry + 225 8.36# St. Jhumuit 28 Spruce, 212 Eldridge + At. E. 44 \$ St. N. Y. Reuben Smith 1 4 From the are, 91. 4. am. Linoleum Infg. Co. Phil Richmond, S. J. agente Joseph Hild + Co. 90 + 92 Thomas St. 91 Victor E. Manger + Pertain N. y. Henry Gaspar 193 milliam St. n.y.

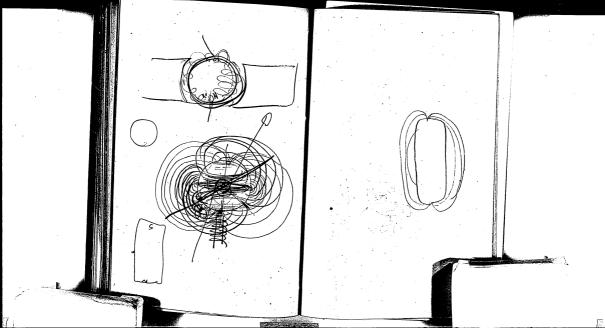


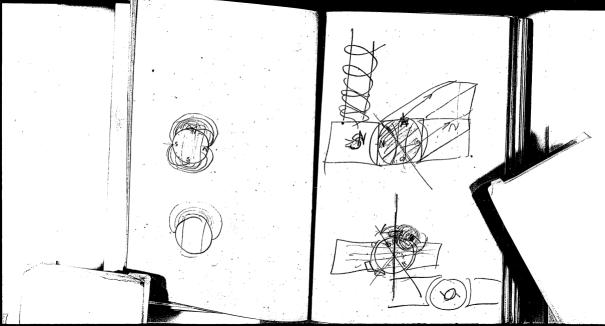


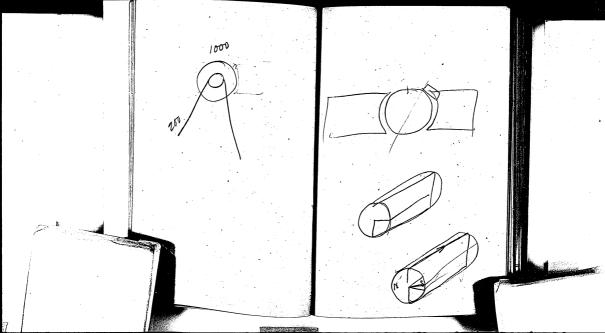


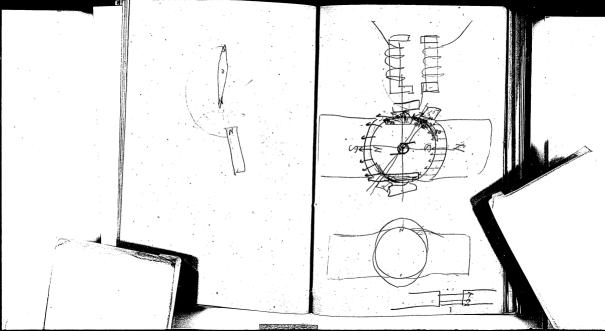


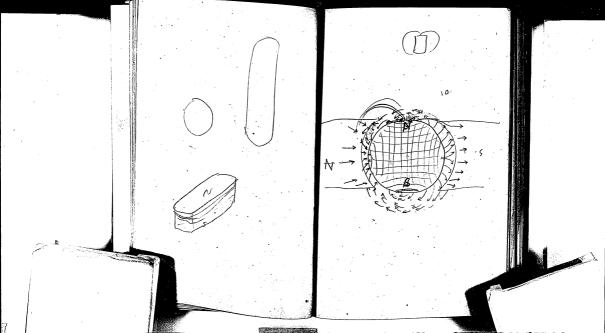
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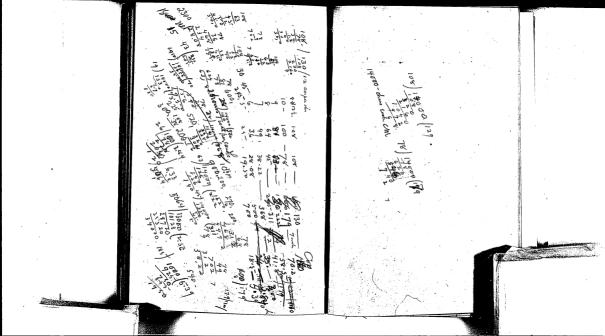






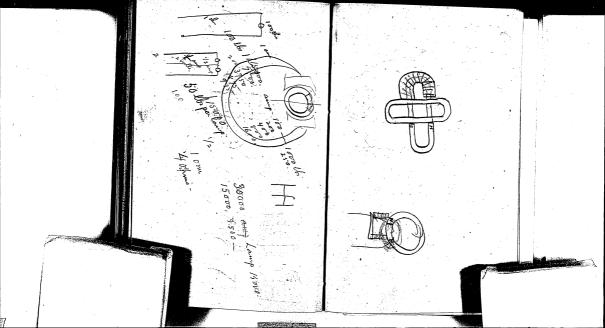
y. Physical + Optical Co. 2 14 t. Jones St., n.y. stack pole + Bfox. Hy Wilton St. n.y. Fr. It. Wagner for 43 Maiden La. U. 4. alexander Delfers 20% Bray. n.y. John Pettit Bro Bearl St., n.y. M.O. Davey + Sons M.y. 5 & South + 115 hall St. John H. Pearch Pearch, n.y. Baich + Lomt Peptical Co. 37 Manden la. n.y.

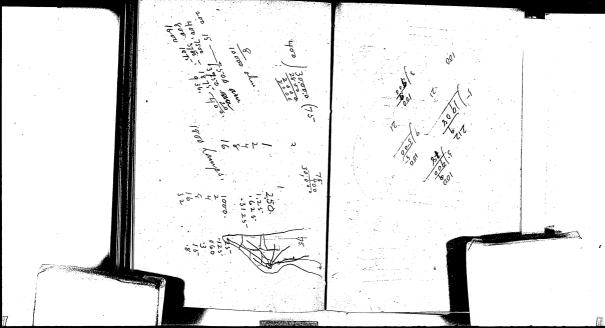
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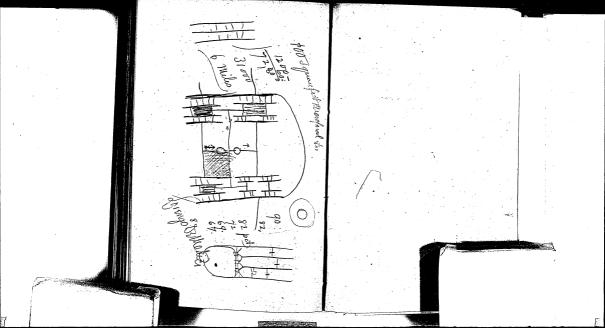


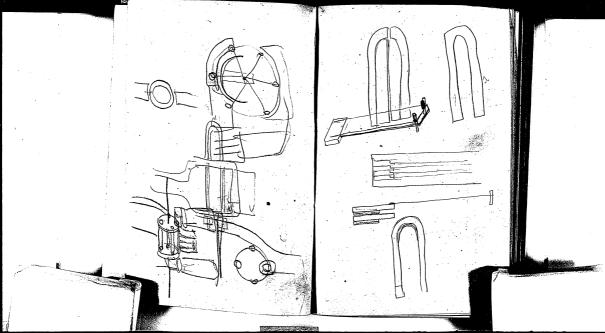
Fair tanks + Co n.y. Scales Horris may. n. y. hesly tooks AI Eigth Eighth St. n.y. Jonathan hard 155 Maiden La., N. y. Bradley + Carrier 1. 4. Dey St. n.y. Penrhym State Co. 5,0 Knion Sg. c. 4 € an+ VII/2 Centre St. U.y. Steiner, Kann + Co. 478 Bray. n. 4. U. S. Starting Co.

and Pool Co. 118 Chambers St., My. Douglass Inf g-Co. 45 Chambers St. N. Y. Frasse & Co. 62 Chatham St., N. y. Interchanglable Tool Co. 57 Hudson St. N.y. Michael Lukanitsch 51 Broome St. N.y. James T. Pratt & Co. ... St. N. y. H. Runtiss yto. 14 Dayst., n.y. Francis Golfel St. n.y Samuel J. abright St., n. y Hers & Co. 117 Prince, 8 321 E, 22 St MV

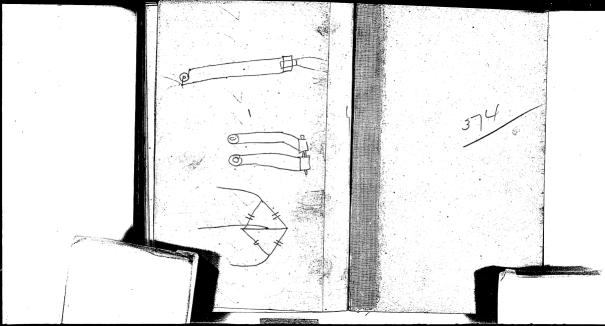








Albert Berger & Co 47 Maiden La. n.y. Chas. armshimes Massaw. n.y. Israel Farjeon/ 15 Massau. n.y. Henry Ginnely Maiden La 91.4. I. Hammel of Cor 9 Mai den La. n.y. Reich helm + Hoester 679 massau, 91.4. Friderick Fragan St Massau, n.y. Henry Jimmyth & Maiden Za. h.y. James M. Bottem E. Imhauser Sway, n.y. Intham Bruenition of My Clinton Vice Cloth January St. My Passace fine Co. 1/3 Lis



POCKET NOTEBOOKS, 1878-1886

The pocket notebooks are a group of miscellaneous books, generally measuring about 3 to 4 inches in width and 6 to 7 inches in height. Included among the pocket notebooks is a set of six journals kept by Charles P. Mott between March 1880 and March 1881 to record daily activities at the Menlo Park Laboratory. The entries in these books were later transferred, sometimes in expanded form, to Menlo Park Notebooks #53 and #117. The other pocket notebooks are by Edison and Charles Batchelor. The entries relate to a wide variety of topics, including electric lighting, telephony, telegraphy, the phonograph, and hearing aids.

The books appear on the microfilm in the following order:

Mott Journals, 1880-1881

- 1. PN-80-04-09 (1880) 2. PN-80-05-03 (1880)
- 3. PN-80-06-08 (1880)
- 4. PN-80-07-14 (1880)
- 5. PN-80-09-23 (1880-1881) 6. PN-81-01-19 (1881)

Miscellaneous Pocket Notebooks, 1878-1886

- 1. PN-78-02-24 (1878-1879)
- 2. PN-82-04-01 (1882-1883) 3. PN-82-09-04 (1882)
- 4. PN-82-00-00.1 (1882) 5. PN-84-02-25 (1884)
- 6. PN-86-03-04 (1886)
- 7. PN-80-00-01 (undated) 8. PN-86-00-00.3

Mott Journal #1 [PN-80-04-09]

This is the first of six pocket notebooks used by Charles P. Mott, a member of the office staff at Menlo Park; to record daily activities at the laboratory. The entries from these notebooks were used as the basis for more extensive entries recorded by Mott in Menlo Park Notebooks, #933 and #117. This pocket notebook, which covers the period April-May 1830, begins about one month after Mott's first Menlo Park notebook. The front cover is labeled "150" and is inscribed "Notes taken by the way" and "1st." The back cover is inscribed "1880." The book contains approximately 40 unnumbered pages.

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Mott Journal #2 [PN-80-05-03]

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Mott Journal #3 [PN-80-06-08]

This is the third of six pocket notebooks used by Charles P. Mott, a member of the office staff at Menlo Park, to record daily activities at the laboratory. The entries from these notebooks were used as the basis for more extensive entries recorded by Mott in Menlo Park Notebooks #33 and #117. This pocket notebook covers the period June-July 1800. The front cover is labeled "152" and is inscribed "No. 3." The book contains approximately 40 unnumbered pages.

PN-80-08-08 E-326

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Mott Journal #4 [PN-80-07-14]

This is the fourth of six pocket notebooks used by Charles P. Mott, a member of the office staff at Menlo Park, to record daily activities at the laboratory. The entries from these notebooks were used as the basis for more extensive entries recorded by Mott in Menlo Park Notebooks 933 and \$11.7. This pocket notebook over used to period 30.0.5 period 1930. The Pages are supported to the property of the property

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Mott Journal #5 [PN-80-09-23]

This is the fifth of six pocket notebooks used by Charles P. Mott, a member of the office staff at Menlo Park, to record daily activities at the laboratory. The entries from these notebooks were used as the basis for more extensive entries recorded by Mott in Menlo Park Notebooks #33 and #217. This pocket notebook covers the period September 1880-January 1881. The front cover is labeled "1.54" and is inscribed "No. 5 Sept 22, 80, to Jany 16, 81. C. P. Mott." The pages are unnumber 4d. Approximately 100 pages have been used.

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Saturday Cet 16.80, aldent Mr. almit-1212000 Describerg June Editors side lat abi our dean toute

Monday Och Truiday Oct, 19 Buch lamp, one langet by no 26 cylor Sugment Them a switch Level, Mr. Bal Thelow experien intering Lung Sette secured in printe, out off face title and Varie Merony acres and downgange Mito swake well, now about 16 fla muchy bes, minute Bl. 110- bgo 67 Visione. Mr. Inream of In more Hele Dobow Mr. maring ine Obsert Bell in h. B. m seciols for leve in which ar tier beiles Sitrison, May med, sin good which proper nothing where come how for return to Balifornia the heten to mechanism the dear printers Chlopan Vapor, Frances heating douting y si sulpede Localed a latte in anghling, brutding ferrature ablation robor crated queit +1 diampleoning hand a

We drusday Och 20 Thursday, Och 21,80 Ships to old Michel months and interducia Caroline Tapas in prima in chlown, gas. Remotions bor, Similar petitoday, list I puriale double white, each worlden on morning the offer to prove them tumper, Mr. Batthe other Continued Susa time on lange commentates Methos, by Mi Edwar dand by 25%. Jong lampe to Simple, 2 and actives of a feel monas in acourt and + 1. Digne + aster by himsel friend Trasie to actioning the dison to use for accent subject to lead sha up Disa Engine, agreen how and good Visitas Jaki & party priends Leady hair an hour to get at statute filled with water

Saturday Oct 25. Intergrance Garages & Mian De Estin expire Strik of J. a. & propersionles Kinit paper cartons, in 76, appair One lamp Uston & Face who com to see Land. 1878 que to the experie and are land an laid sit to day with faringet Langar, 5 book allowed by Rome Gods Bouth, Eason & Starm July Mile township too lamp being tolulowate magnet siquale Votaman bataner hour same to Low made by litt Got, 18. 50 annation componer of direct istar. Teleshow money Bedering Space of now place after to Edwar given to mote for the office Course Has experimente a ort Visto Loculonican Buchance, on X1; France Bi, 104/10 175 Xagent for Book Bock Mary heavy rain school south Quelbert for good supply of water,

Monday Oct 25: 80 Och 25-Banken. Transmade of Mosth the first showed ouglagation after Jumps 18. her forms perfec up Band touting nicely Mas Home bound on month in formare into Barretor strate X for taking the air void land any seation sulty men Motor Gumber laten gedly for show motor to be to me There Comery Campy colone Im primary carlon hours nooth

Tuesday Ost 26. Wednesday Och 27. Sparce IT black Inside moud for paring my fine reserved - Xualed off the cortagion no spans In coce cary win Gondustas, sun pom station to light X drang homan Rooms commeting Interibus Jactory, 40 to 45 - carbon tetra to day in testing min by chair sundy Degredar disparato red anomicing This death from of le or fever at

Thursday Color Inda, Oct 29.80 Basis Dean making butting money About Mu Clark state in her xeary Smile low smally go Divinos Maj Exem. Willow retir. When Soud to tel g hand for Testino, to day Mr. Ratolison phiere the do at som gulle Large of Suting testing chamber or punite para as lamps. Interfermen, Health Theren - Dlane + Ullian Water Dyname motor taken to july bable are in journ by stone of new me have in gasting for tame Specialit black ingine to her all shalling & marking offer 10 en lot Hay and to the on on al

Salinain Och 30 80 Wednesday nov. 3 Lambe were burned on line past 20's band, and on Tuesday the Intere him From barmans to Factory was sufplua and bund the made 12 gent More general, Exermente on hearing on Monday night Burbants here with Magnie lantero (Steart bean suite the Lafe arriation, Long Still on where Lagit, good but not prompe cumple Jing sonancton, Sim all qualing Buden man of Stagora here on monday Wheel miles, Las Silles Auguing Allana Siling at racing for hearing Muleanged film . Brading as Dr. Bartala: experimenting fina having the frimes change a to ne freeze wenen to Murcing gause, Repairing to pump water from gullen White Jumb Meta tallen for summe in ander pravice with base, and yestura, bromstone Regulation Skeling of apparation for Taken down and bumper into hinghis Me and Trutter . Nelsten by Mr. E. Bar 60 age

Thursday, And, 11, 80 Visitar Beiduman and from Genera Root Bala agent from Genera Root Bala agent for at Pond whenever de 10 gar per My Syconta in deplose station, established jug on the 16 in Coboratory about Holger went to Coming in water to be che Claridin Carton, one Trace de Carbono Catten to factor, to be but in lambe to so-Kant here put one on sword in Habrial Dy + ex painta Las din Lamb

Friday Nov. 5. 80 andten load ned, Xo Laboraring the balance meter week Granghting, Rhetit ruta to assist retter cupi dranghamme april the Batther Let house ale day Dastine carbone, balance of breaker Survey in the history 16 Rind Mett made some How Secret Lind divel from 20 havings by all May experie Third calinging in her glan to Lange Steles carried in Such chance prathe estra me find to posts by andrus For theory in Lateracing Superatory to

Saturday, Nov. near & boys worthing simply sto facing Logar tuming Lignam Wight the water beaders to And au War general of part were Uston Haminer still on tabutating statisties of Monues courses, Elvin + Francis byanty carting in gare, communical Xbilling out lambo in stuly Draw Melaterence Cordon being Taxestonto on amatice Conneighor on commutation, act on meters -Surar on Magnitore of large In mano, bearing of machine health

atten Saltered as Nov. 13 by freezeway Bed plates for lange dynamics and Porter allen Engine abovered at awards Unit gown for Sast week . Moses 8718 Wednesday Ros, 19 engagea vinsibally me Sulettenne Tamboo Sapanuse were were dampe to delay in getting coner sing Valer former continui continues, Sampliere, Cet at word in Chebico dynanomita. Campay balance meter, which is giving holding and passing the enven good salisjoction, andure somehad apparation sor searing achterio as the ends may be bruit up without Thurson Hor 11.80 heading ofher sach and made made for sactorizing son to aka time Maig in inchants inlarged onde Mittel lugare brud in small dimen

Sunday Nov, 14. 80 Junday Nov 16,80 What heater set up in tacker from wast, a load sund very large Soundles of Bast- file reca st Madein sheft dynama room Factory to day on on largemuch, to faculation Hela Mr. Uplow with family god will 14 gabres tobe carton jed Meter, Medicio set meta capo ne son Kand finds in to work loster sugarit here Illonday Nov 15 Cartonis lesting before heating in land Hot clamp attinson to day healed Claub though globe & Mula the glass Spice Board of director hura a Madang herein coming Esitors, reporter of Horard some was changed from office to Laborator, these interested in the E. S. Go.

Wednesday Kon 17 80 Thursday Mor 18,80 Papers Sun of to day gives reports bedow by that Morton in the of he no quate economy & statility Marinis Lamp than for Christin from to love a much quality such gives preference in expression to Ex by quedo carlangation, 10 1. 106/2 89 now so hought by Uplon gestined Some sairfully made Back Lands Las sun for astate on Edward friends Cugine foundation, New remoning soil Van unaw ina of ingene doon Taken Herard, article on Alasan Jourdation for Portie alling Enge and remails of Edison about of Bask Horng is treating Bas The package of fine black from Light trees pun under the R. R.

Friday Nov=19,80 Salunday Nov. 20 Stut lines, The cables to start lands date hiv. 17. has good active secost about 1000 feet wome and reland frieshing a jet for at an. medicusent lighting, with more average of 12 new since est 25 80 Sauce & the Englishmen, milator Papar And motor pullines a end in the Sun, to shot that the night of pris bectime, was a mass of mas of then reporter, but did not en get them ling munaalin . floor cames out the on Saint out the Enors, Shap and Marons work are right Large dyname, polar extensions Somme Jadine, put in lange after whave to Thogan's latte, puberday to kaning mis Japanged by hear, accorde the carlon destroyed it mean damp. Shart, Maye, The single point shoul Muchay, in co perimens on partie and fles wed on sumper sparted so lady That My B, had a lot made Smile The Juramy showed it to contain Moslie Romach which had bun wedies diver

Mod 20 Monday how 23 Alex mercing. Mr. Bused on fine factor, during Chestrata, new of faller, one gas just to head much work at Sacton setting, up ware You funder france to get queste had send hiping for meroun bumps. weing in stop coule in all The Wind general bash www. Bed state for engan in she and buting any play of plants in in dies decimes on the bailoninging Mond founder by ander amain shaff & some programming and true last light, monde upelife Saile sud Sears Man 8:00 leight, and carbons to hang one Rependenting at factory on time and stund sucy and be weighted the heating cartons in lamps of in the bottom continuing dies on the designer of Treating mercury, the beautie at Stranger sylvide reparted by affect work on bonn + motors. attur . Into reality and some duly lavid on expecting carton by dedition This morning in reparting Buelleye, Mr. Clarke at work on dy now For 450 Par Butt eye engine which to Informe me May are making for line

nov- 22 Tuesday Nov. 23 80 Hickoryses, aches on experimenting Paper Post of Last evening buttisher on depositing carton by destriger he interior with Buf Barder in thick he resents you than approach catifacin pays E's lamp is 20 years 10 and Magretine Water & Clark Made expend searling for two years for what the inun to determine white give have has formed and got. place could be dispensed month lines. Soman barry um courting the bokes Visitaro Mr. willer here with assistant with gothe made to volte differencin four to work or balente some so cases of which the drawing have bun puparer and nearly for him. Vapor Horaca has short note amount foruge claim the fast of latin fice andrew, Dean tria saw on somace Land being as whiten at the mainer planer but seas not steady groups S. Kingsington. X puparing to tree it on lacke nonculture the some angeler, more to mating place You blooming now received they were to amaly for onlied real

Wednesday Nov. 24-80 High Vac, Last night six Kamboo Condensor Harring Made Iman Lames some sout to Caborday, Live in lamb I condenses of mich and highly whanter water out gratering for to place in lamb along side and lund obout 3 hrs. on berns but comen not be browned when securit Link Vacuum, Last agramo. 4 Meter in some bode of probat forsestant watches a lamp porter no Whe felt steam will be equal deguited the could the Alua Budgaman + frience Chemically treater forther 200 long pour V tralia ohe medy by France to semore are again and lough Make, were with to the factay Is be mained and Served kroken persolation and in tours

Saluraay Nov. 27. Mare to teres 4 3 love Coming Stan ul report of interior inch Du & Quea His moning in the main, take no respondenting Lowing his reservations Lackery , Parlition sur between Como in and land one of the stan storms pail for Pasa on " Gely of Para Dev. 4 the Authing wear Soute of carline in gas-Can be with clames of all i've low Islana ti uplan in globs, tob sent Bush up Her, Glance Sugarna Cintow Male, Engine stable inte son

Wednesday Dect 1. 1880 Thursday Dear 2, 1880 To Most reto this morning protons about blante love Brings ent to to I min go thence to Philadas Poplar "Seiting," letter of Selme flowing tring a by anosticia away Garanging. I find in Bois de sone delans Vac September, All will, lande and and holes by the Edism of derry - Summer mond by Soring to facting to be to bunit the sawing many carin sanction There dadd 1110. 28 - 19 Chestolysus. achoson in using me dichiel Sula cuna Land color wilnes donne Then stand in line after which pas Queles Latering how on literation the four for or grate for honoring incharact I. Carlow treated by Hair woll on Man Day, not bong scar

Friday Dest 3.80 R. testra but 24 chorne. state the Rush judgment defand in Col deit is Ed in Sul br. London The of linder Engine, Kin Amade Augure Pa-Dreen a to laborating to die bamb of Ala Her Clado from Bearing popular Hydrantie Press Serbalities of Sugarant Engine Lach 16 Morning trute Vacanio, Pumbs made Cash with sie abandened blown marting and how poten Vinnes, senteted in car Stacement tested by Magnet, spark min and her dandered ling sopents Baston, Same and martineis My Areale a very in soil, building You I have various pienes and Exter Trances exper on new pump on the face in foulding Cartons. title and muchy passing Humah Sent seten into Chanter thene to and Mar general, working of Smare through contractions in toler. Pratrice Mass Howen Barring Bay Tille Sarste, Suparing for both cipund Genetictive, to factory moreased by Mr. Educa wife on high decenne adding win part of way And lange.

Monday Decr 6. 1880 Thursday Dear 7. 80 Capie, Sun of Sunday has Cican Mereny, Hollinan Gunding uppert of interview with J.a.E. Aglass for deaning mercun 20 days given before dailing orcas aller Eng, 4 the lamps, Lines benese with Ma, lister this com Myad dyname Linature revorme for Sames 4 of the 12 lands in case our Surroung at factory or everent je lating still burning after 180 house Indicate , Me Kengie twing Magnuts days : Themps The celia tite constactions free litt found so grow as was Lapretice, Then pring up and spring Factor Motor prover stain, beregite lang connectito Kibin brita room to him thour for and exact after whom of amounts. the disconventer up amplite and Panks Men Mening beres percep recovered in line on on the cale. to semps in experient with contaction made en siparali amade tito o insolite Clarke in n. 4.

Wednesday Dear 8- 80 Thursday Dias 9,80 Stire Solden Dear abandenes gave Industrunce indune resumed in who we better see we with showerd Igeneral telephone case, amoucan Machinist this were mention lesto of love by local surung waring On machine as their hide lane resect songit for by Mr. E. having bene sufficiently demon that, as IT desinary and reliability Sulphous. a pair be month by Bug have made to admin of apianting trutten Can be shown one by Holya inst away pow mouth frien put of for the tobe for exhauling consider 5 wines tobe beri inside Sweet list Buderman's engine marting This of dynamo, destroyed amaine, Held towner quadrathe soul Sour pump. working muchy very July power new some want feats factoring external atto o suckey васиим зний стиль во виния First lite per a will ground glas Thronge which the nieron passes

Saturday Deir 11, 80 light for aluts in My as a grain strong having amina from Glade lactach night no on which Edwin lamp to do home Carlow deposits Hamme towne Brodier ou for that buspon In looks on side carton in some Sound in which gasdine so intertient Laine Magnets. Logar winding 1916 Lawn double brind wire sige on the lice by commuta, Constants determined Sealing the spirit lamb und gone thy Richels for my bries in place Brech take held in backet and bullen * BITH No. 118/094 474c Tite consister for realing off famps with traight petranet butter Late bar for lanning dust coal his Listas Dale, agent of Somac line

Alondan 13 Trus day Decr 14 a dust grate bars for Insterne Jamps Excellent success at Factory during the mality prove stope This morning and a number lampe last. Small Wrote, ou how how mode Mounted by Bergmann red Kui a My boas duck, black at work and Blown riady to start under bother fires Istothe length carbons sealed in somme Vinter Ing Branger, 2 ladies Paper. Such column artists or proper Porm pumb at work 4 guile a muration ; of lamps realed of wing the blow fife Lauf ou straight connecting the restanction, Pleustad for student brene Class Meriz.

Wednesday Dear 15.80 Thursday Sur 16.80 Small dynami, take to jacken letty Measurements of local love, Vine wall another to lest accuracy loss, about 12 h p. Blb. 111 Aguille Interior decoration all prinches there as Tracket with put swing joints my validy Geststown, Exp. southwee by, asheson 1/3 Camp Casted 16/2 his Carton plating, Garren put at platies Abunt, achieve at Hemlits But longhi carlow as factory nereduce of Petrolinno after de hettotion Siedie thorman billing in a sen and Bench hanging, Mifrett Desgrate to at there Visita Budinan.

Friday Des ! Saturday Der 18. 80. Smare Elis Eng, Mer Edwar from Partias Lash make for Ma comme fact free through time at the Mare general on oles work hing Best de ferrate in large dynamo, Col conte Wacton, Mours no fromthe & la whee, Sink repright engine in tota very

Monday Dias 20 60 Trusday Acor 21.80 and speacher her last wording. Dish Ivas Ereided agt Edwar envine white supplying 194 lamps Garlo, acheren with carton vones Clamb plating Lawren Maring wines Small the eng, again obstituants > To aldunum M. V. city - wether

Wednesday Dear 22.80 Thursday Dear 23.80 Visition Burrer & Waletronn are Can Thurs Musen Eding Wark & Buch Amamo large, head blocks told or ens Cambe, 32 m sive 940 accept Springe Hastin of Mile Hadin with Motors Mr. Olpton lesting the ne to the fauch of 61 ohms Kampalin, Mr. EDW is in favor of winding it about 2 ohms. american Unia low set in Coloratory Samp lots commenced tracking at

Factory the second tung pumps Krisil or Maj Entre.

Neve 29 Friday Der 31,80 Right to discour if borrible Ku rance of the a 24 Seriet plage lung mistand, at 6 Steam Life Marce and and som illed Caberalan Abunt Mr. Ciarte in Sulara Pursuit Mr. Edison say ush gota rate Xcan 1880 dieses with the new meens in the less to Pat office drawings A hear Sen estiles to they and tings In readinist for illemenation bourned

Scar 31.50 Spelay Motion police that Mr. 20. Papers World Edwar Melanchel Quanto Bamboo ulm of miner here, Exmenuede

Wednesday Sany 5-8 Bil 106 by 187-Jany 5.61 gebele + inscrita a carton loop

Shunday Jany 6, 81 Magnets with about 45-162 110 Town for generation for Builting office in new Vork. Palityca carton, or simps, low wint Fire hole with Buthon perduct by high ua hear Outside simily 377 posts 4 ng= Mununation lin about the lands tile & celous, deficition 173- 20 annaline, Mr. Edison man Sing Lavren, drieted to made with Prop, Ut in Somper

Saturday Jany 8.8. Monday Jany 10. 81 Il. a cables, cables of Moro wow los on lome logula to uplace Est lamps, cart love Plat eni bas Luan up me side, " tal loop & Blay len Silver some is son diaco mare 1/2 Crops in same glote night angles + 1184 + 4/2 Lamps Publication, All night survey worked on treated with polition to platinged , va Practical tracks on the as them Loop u tradia with carletin acid " here for Ritheration in Bers from tested at 21 a BR Ne 186 bge I de Bone 166 pg- 71 est. Time in carly serving, Same Sender on counter shorts deple a 4 von But & relleged

Tusaa, Dary Wednesday dung on Round, cartons . I and acto police price price to Plating apparatus frumber by scanne Case moved into Eng 2000 Adjudge & Minut serew to regarde The Then to Mr Edwar R. G ace day bland by depor Guden in gude no24 but Down 15 Com P. Cu tout signedt, De last mapies aim Ewand y read for "his

Thursday Lany 13 81 Friday Jany, 14, 81 Factor, Brick delicina and Kit word on Belle foundations Ha Cope Campe all gene but Blacenized loop Leen made in toling or in the sand Stacket Made by upo lamb at the Lateracony, motor born to for 2 change meters

Saturday Sany 15.81 beent, Mr. Edwar an New States Prest left for home, 1120 Male general for part raws. Ment di- work in historing additions of tactory, Maleral continuing superioring to conting autore, some in Gregaring Onto Allen Engine Stand & assist on asmatine

T. A. EDISON dis out hearts, -Moreld with House fage amp with topped on side 602-

.T. A. EDISON. Vacuum pumpa.

And Shetshir for Patients Basica Pries of Surando as la de lebelidy se Espete Late Commence actions 186 v V Gol, Stewart Worlter Pt Mus & Kensington, Statesties emanie Experimento on cartons

Mott Journal #6 [PN-81-01-19]

This is the last of six pocket notebooks used by Charles P. Mott, a member of the office staff at Menio Park, to record daily activities at the laboratory. The entries from these notebooks were used as the basis for more extractive to the staff of the park Notebooks 89.33 and #117. The entries in this pocket notebook, which covers the period January-March 1881, continue beyond the entries in Menio Park Notebooks #117, which ends in January 18131. The front cover 1 absolute "1.97" and inscribed Cr. P. Mott Jany 19, 81" and "6." The pages are unnumbered. Approximately 30 pages have been used.

Wednerday Jany 19.8 on Bergmann, maputer care Carbonization Mr. Backer he's David from Factory - cartoning how, Latter away again writigit Lummation about 5 to lander war bronned Cart hight a Jarge mumber of tree to her and a minter large gas con-Series lambe. Most made Pax of

Thursday Jany 3081 Friday Jany 21 1881 Las souns a package of Rac-Receive for clambe need from Surty lan -me the imfairness of the requirements Tof the lity, of the Elec Sign Copy or Alles Horard article of their Silling of Sutting in wice de. suporte Clarke good, ded son Mireleges from leity to lay wines Estimat Synams on his total gave 12 rolls at soil of Right of its ming Grante on noting of Coffe ture heating were sainger heating mad , Sheheren gorgas, A Garryatin, Call by Ohreson formered in Haid and Home making preparation to appending To uner digging evece. en coating, our peris down al Munimation lik again to ring it for Var Jacque Cateria. Chalong Lamer common and state

Monday dany 24 Salinday Jany 22.81 Solve, No stan jesting and the Carpenter shop ston room bask of Xabratan eleans for Carpenter shock. back coating Source line on an Caston conting Honne got good remuted Dennet to cost with glycerine & Rills heata cartor, in air pumps. Work gonnal, Large dynamic meaning. Candles & Energy In ancie believe Completion, special machine for Air any case double the every; hard sulles poople, Obleonite bonds gives 8 times the canolles for making contact

Wednesday Samy 26. but All Edwar again at All Cartynging, 1st mond latter from full all mi in Ball on 150 min Phaling the steer plate a Kning filling, J. Moses sung Steam calcimula test, pulinging made on ande before stacing in solution 16 blacket assurers. Steam determined to be superhealed, 155 kgs. 101. - carb 175. B. Ilda Michole serve and land Machine Esp, markine jua fea from the man Multiple are weres very good Deside My. Symamis shipped to da Simile but Francis thinks not so good as Cable Super Metal made by My, E. of poper Voille insulating pieces detect tothe ine Mornington, all lampe let my King from contact and admin of Anning sporter smoothly, sweets Marinis dry an instabiling molitice, Moren here, also Towny, Gradand but in Cathe ance a slight tistures Moto made Pat office diawings

Thursday Jany 27,81 Friday Jany De apart Hay Edwin reported to about Mr. E still about gone to Washington Lines Mr. Goddard how mary Pale Oliv, man her lodar stower Jabos Indicators need last night butter some location Land adjuster chant File by my Clare Syrace diname, bunto maring souce Salon dum sorting Allumina, Magnes recline see the thing buy a Strontea, silica, cenium dide Care pringation achieven get excellent debre Bargern chloride, De change miller Villagei carbone at low hear in long in ester, as plus with hust in free la combustion tide, heaten the whole its gets Hooder, put-in factor por glass Mymination, lit this wenning a. Dept 146 to 1200 floor Municher of redor here. Rat Espansion, Espo made by hicks Socketts at made shetcher a expension of platione by coment minhow Esterunt 200 cats Store Selecting the adaptability for theter Barboning ación I Monto B. Men Junan 110 to 1550

Saturday Jany 2.9 Monday dany 31 for Hires & Kuthen on Mate St. Sundage Shiday made plates & pore The trienlinder engine for pressing Plumbago in Hydraulie Bros. 12 her test engine + Camps som ale Carlinging, Mr. B. carlinged in dans Ingot 12 her and toils made \$26. Leoper on which to sarbonize paker To 42 3 10 cucait I fina harine pile by execute in bell of die bunk, la Latat 10 ohms on artificial made govern

Tuesday Fely 1. 81. Weaverday Febry 2.81 Hat win inside of seal discola ed on negative solu. Setterin ande varbon, my nelatte but about Mr. Edward Clause in 12.4. Some Hack Miles Ille B. had helis made & Lonking up mula. endutrintient abano fairfor were sent up tisted us & on very live in globe; no better eson

Shanday Jeh, 3.81 Friday Febr. 4.81 Carlo usation, were coated loop Juste air durin out by Caroline the Cart settling - check Gas theated by currenty mouning Edwar in Mil. hiller lement from Jaban Leuta, Bigla of Mereling, Some Cents The crite and placed on that and have being blaced. Pales sulting die, leed & some fafore out out Carongation & Hava got pery fine Very micely tailonged by Laborer Lambles, with Common gas into Ones from line of Jutting monderin from Agreement Busy taken apart for Meles down det placed win from You balance Drules, formed with hamos? na flow switches off how & lands to count at each what of the Time encuit

Salunday Febry 5-81 Monday Liby 681 Carlone Do Haid claims to fine been awarded Hos for milatic carlon Arranged & Working good with one magnet Seale for some dore with but button to Bury Syramo Junior port of for signals so of a constant po is where ent the caller, pertons yesterday. 2 3 rate lampe to about 8 candle sich Stud Mains, designes being worker sing At How nea Not by Mullrusi, of biles sommetions Total Men. Then Inen Sont Bile Ille Frances repermenting with to complete the Engine Winder Inota for nete surpose by Many eneral Carten graning iroza by Hard, Mr. Baisteln sange for Hanne of main driving pulley Junge Mr. E considerable time Dir have M arranging office on Lack Side 3th amoun, Large American place shafter Bury Syname finished, Seet made copy of May 6.s.

Mouday Febra.7. Musday Fely 8 81 fine shut in the dies and hos Constact also made copie of Bradley out out a loop ent continet Lamb co with Light very nicely but 105 thick Russ Los for exclusion sin to Decemp Love hice shull about reis at sec, each showle profits were that by 5 de all over the of diano Land amaine, all office on & 5 de to be give se with tight Co Clount, Min Ex Clarke in Mon North. Illermination, Sir in the wenning X Special train Load of de care Morning, SA Mitt ned reduce lage to 11 9 with all studies Commetin, Dr. Haia had make Sundago, acheron commerces a day of Hydrogens only in Xxis, on Humbagi on Hy Exentis You hunder at facion upland to by to produce, metales carlos

And carton A Haid parte gas Xet Factory, on bakers Ban too carter ash bon resucces Chiningo, achean got a confic Stoope son mis housed mustare it a letions to wive mead in fit foliothags & accesting supp me forther in clambing & one in Butting in lams Marienation, bet in evening Large number her frem migh aprite Mr. Elson, Sthum Cand Tapare, Menore, Sapera said to Plating, Laren , Inh in Kingle Have towardle articles on the 3/ Carton, 27 in musing & bac by display last evening une consuctions through tubber Will hilling stoped at about 126

Friday Febry 11.81 Saturday Febry 12 81 Canton deboit of Have based the bay Hanchitte Samble pour More gas trough mouse the high wat attend being tested Hanchitte so far Mun bound in Holes back gas and some making the best 4 an excellent teste retrogm in seeling, fair coops . Therein free laste brawing to wright in kartenizing make much better Elumbago, asheron tressed and such a with fill wight BR Younder of brokes and gor 7 Man 24 219, Dac 8 Dimature, large Climater for ites Stating, lette subin by Lacron Non plate morey for placing, lotter Still in the necessary soulast forwing and found for high resistance the highlist to amistrust deposit vails Mangenna of sast west, Ir Haid Molin, an with army con in crating carbon looks. achiero un tour say little som alle Hambe of large annotice preished Tyris to high, & Communes plating in quantition in linghes at factory.

Wednesday Fily 16. Thursday Febr 17.81 Walbert G. P. Moto since Saturda, Clamps, deportment abolished at the Factory. all carlone to be peated on. Armatine find on return the large Jumpline about & Seans soldering Pumb. dont b. Contraction liter les ging The jaines, by declice are Linto me common tito being true 2. Then themps, acherm has hear Plating Offaration, Exwern Rad made Xilombago lamp bunning, Mr. E. flat shallow dish, number witter well bleaud with surperty, Horks in bottom thingh which pais the unes & ends of inner lites, then Motive general reduce signed by love lite filled with bloting solution up Leavinger general manager, But us in to perper height on carbons. shop y Calmatan Sarge armation, again togeta and Meter Campeneate for evaporation most Stated 014 dines to open when beging at a centain Thirtage, after healing on sumper observed to be much stronger, beach of the dampent place to adverse

Saturday Fely 1981 Thinkage Steates in Moude to got Andro carton Dr. Haid still equimile out je danning 10, more daste menting to get looks of uniform, conting Sundation, Ille thens marting net. Buckeye amatine Lopper plates were will Compound Not Varying hedisting of and work to day commences cutting Varafin, merending to come one in Xout dises & bais for Bustage amount operations at builting in Mariamin to Smalle me same principle also con mind 10 H. P. Sugare Stampson, 1150 1600 para Porter annature safety deposited in Gulas Liga lea . Henry win & Work gones for east week I Have When the lamps our france. experimenting, still in depositing metalic Exture continue Porter radial Timedian Mela Ott completed me with state have removed & poldered on hinging lesselate on spring soluch in inovaring 1 down to six aways. work comprising freight desends and by a sprind stop disc accountage. A much of ofmany of para, straight rade a sistem to Camps made 8 ohow winter Mr which hand is attorney Edison Friting about at M. y

Monday Febry 21,81 Siones south in more, in live aministation insulation of siper run good insulation land, another armain would with Cate dynamo, all in readiness and the have du undoublity to exples sust magneti connected in some under the Internite protecting sing, Esp. Lampse us, plante stamps coming D. Monday Febr 21 Month B. Irrights Started this BM in title Mer, Francis determined in agreements from 16:3 Bragic files but from finds seen to write to 100 d. b. i. S. to I tille bast, large land & Amazon D. Latow, N. G. but can be worked by ing 25 in flank out of 150 tried Harmona almaant, grove of long without jointe sum bles while drying " I greatemaky

Turday tely 22.81 Wednesday Fely 23.81 Motor Villey Maries Connected gragnite-Hampor hy, rom 440 with 70 lbs steering the multiple are in mais line sond with a Krade in (188 Revo, crufty + 1230) - 60 steam Lamps , higher sport as lamps ander to 7. mehne 1155 Par. 57, lander; 16 amateu then seven ? (no resistance Shop protien bacritte ned + D Camon + Muo Kamp. 5 cartone secure in olamo Carriedant putting ories in thes for stating, realed in without state handle wee , + give good approver, Mon stamp, lamps heart on summer Thanding week, water and it stamps. District on paper a moned of baper ores destroyed by nevering. Carlone treated by staich very michier but inquear deforit Lyan sailns, broken things porente X says a great many assumments and Gunkago I lamp lested by Trancis to Whom cold us shot 21 ville 4130 / Mr at 16 c. all 8 per H.P. 13 orto 232 6 98 Engine, Hampson lind emply flore from. Matin net sufficient Poster Eng from

	Thur	rday tily	24, 1		Ţ		5	nida.	, F	ty 25	-81	doctor.
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havi	Lambi	utrin end. al 5-36 /2	Burne	181 414	2	inus)	endig	ner				
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Monday Febr 28. Valer allen sun all da, at akont soo fall that has bow expected of been 800 Speak alle on Latin down from laborating Grown meta som jacking and is show and comenta to late, som as generally suprace with a with mother marketel. Alltu eups a low seld of capes men cups Josep Tranen listing lands are cay Himstrago (4 to 5 ofmes) Se of Earn black States Mone huge about

Tunday March. 181 Wednesday Mich 2-11 Capier, Lound, article stating that Sealon Flaste, double size holding 50_ all debadments in Concection with Familie in use of of sige to hold in E. I. bo have been aganged and wie am informed, be tried filled School authoritis sman mous somewhat to their be posting wire in the Beauty Mucuy, all being latter Stude and are more week ne assist degen & remounted with new result force Engine pump too sufficient the findings to lamber for to lest topic at 450 for the tolles & larger one will first broke rue going & list shower very bottom alty be ordered Elduran surpping & Susaving to president Man her for description to make die Gothets, south sape ned Ost and 19 additional lampe but up in Shop Miller, Inancis gone last to da pumper of winning plates Mainination One machine france pret in starting, out out a lamps tun Shop. Informaty Dean. Wat Inching Rine will Herendy Roach's dim work have least secure for 1.6 ahote

Thursday Medi, 381 Friday March 4. 81 Lilly Engine num at 1135 1der ser about Hombron Eng nunning 435 60 lights You know, stick box heated slightly anden In Alesting ingine was found very togate dated Poster burning about see pring Minimisation this enning light Mary au day, warned Rope lah Olmerator remining, dea not ent on stop Weston belance in wining with Lamp liste 28 brought up querdy drawings of dise commentation & but to moren 1840 min well Roughlite a suction Synamore, me repaired to day " Welle Transa working on meter. Who other brand Last enging House Cother line glass tothe with therein evil have to be revound. and copper expend on mixide. Vanne all short dam at 8 o Kars

Saturday Meh, 6-81 Monday Meh. 7,81 atographie au autogio instrumen Dese armation all Lopper dieses Lana love Calties partea for chistmens to new Vorio Engines Porta totampen lotto serving Ale day light in Halipen, Polis complet Plating & one trough in com to do 21/ 3 rollers journed still heat over Visa carlone plated, When comply of spended to about 500 Springramp. 6 Camps A loop gentia Make general sast war. achier pu barring to preser and lumbay like Lega about in 13. most of the west Gloss Climature driven by Stamon for assistante Jenning and making Congine drouge on communication good progues on dice annuelter Francison Eng started in such Carreps Costa Eng, bur pun Mare a less to line to get heat out of bearings lists of lambe king made on table in Laterdery

Wednesday Mak 9, 81 Byaning, Jean't awai men worked au Vestex by trancis, 36 to 93 average Kast right, ording raing theming batha Dula Order Eng. mon this morning the word Farmer andrews making a sorrar Yende again is very task in the of any to sometim it safe Tope for Artid bearing Phintage achisin sommenced Climbage & Charac Astainan sprace scent Jewseng experimentally for grown my internation for feel, and Militi die to give required trockies of fluits of liquip sect on bath, violate offeren Lating 100 taken from backs dishorate to my ourse home man. Much soo in to be latter sort and his water are moder plante 102 the mount Hampsom aren on so Marine age home as may are my action both Mistand by netwo and or head find dynamie worda port 90 nicessay trocks

Mich of Thursday Mich 10 Allegunation, lamps burned to night Lending 1180 au Combrew Justo Generaltin los sind up to day one exception bearing new Last hight Ly ever ou by being denneto inst Bather Records, adved by Her E. la go to Mr. Exisin with to right lett office with the Right Alores Сатово подмина пина слам Hamson Eng. una the ofternoon for Factory, and works my sate factory

Mchill Came in to new Vorte-Moh 18. Brew per Lumat Laster.
. 2. Mehon Red at 65 - 5 Cive.
. 19 - Mohns ach up me orgine sum Jas + Milere 187, 100 95. pour 282 -The U. Stackerer 37 Orchard St. N. Y. Mailace & Man = Samin But cance & Hester, 6 Vlks

C

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